CONSTRUCTION NEWS

PROPOSALS

For proposals Advertised see the pages immediately following the "Construction News" Section.

WATERWORKS

Bids Close		See Eng. News-Record
Dec. 27	Buffalo, N. Y.	Dec. 21
Dec. 29	Nashville, Tenn.	Dec. 21
Dec. 29	Phila., Pa.	Dec. 21
Jan. 3	Rapid City, S. D.	Dec. 21
Jan. 11	Albemarle, N. C.	Dec. 21
Jan. 12	Cleveland, O. Adv. Dec. 21.	Dec. 21
Jan. 15	Cyril, Okla.	Dec. 14
Jan. 22	Hinsdale, Ill.	Dec. 21
Feb. 1	Spokane, Wash.	Nov. 16

SEWERS

Dec. 28	Indianapolis, Ind.	Dec. 7
Dec. 29	North Milwaukee, Wis.	Dec. 21
Dec. 30	Lakewood (Cleveland P. O.), O.	Dec. 21
Jan. 2	Wilkes Barre, Pa Adv. Dec. 14 and 21.	Dec 14
Jan. 9	Newark, N. J.	Dec. 21
Jan. 16	Richmond, Va. Adv. Dec. 21.	Dec. 21

WASTE DISPOSAL

Dec. 29	Portland, Ore.	Nov. 30
Jan. 24	Fargo, N. D. Adv. Dec. 7 and 14.	Dec. 7

BRIDGES

Dec. 26	California	Dec. 7
Dec. 27	Missouri	Dec. 21
Dec. 28	Sterling, Ill.	Dec. 7
Dec. 28	Minnesota	Dec. 7
Dec. 28	Windom, Minn.	Dec. 14
Dec. 28	Missouri	Dec. 21
Jan. 23	Spokane, Wash.	Sept. 21
Apr. 1	Wilkes-Barre, Pa.	Dec. 14
Sept. 1, 1923,	Sydney, New South Wales, Australia	Aug. 3

DAMS

Jan. 5	Bluefield, W. Va. Adv. Nov. 30 to Dec. 21.	Nov. 30

RAILWAYS

Jan. 1	Washington Adv. Nov. 30 to Dec. 21.	Dec. 7

EXCAVATION, DRAINAGE, IRRIGATION

Dec. 29	Logansport, Ind.	Dec. 21
Dec. 30	Greenfield, Ind. Adv. Dec. 14 and 21.	Dec. 14
Jan. 9	Glencoe, Minn.	Dec. 14

STREETS AND ROADS

Dec. 26	California	Dec. 7
Dec. 26	Santa Rosa, Calif.	Dec. 14
Dec. 26	Penns Grove, N. J. Adv. Dec. 14 and 21.	Dec. 14
Dec. 26	New York, N. Y.	Dec. 21
Dec. 26	Atlanta, Ga.	Dec. 21
Dec. 26	Missouri	Dec. 21
Dec. 27	Chaska, Minn.	Dec. 14
Dec. 27	Pennsylvania	Dec. 14
Dec. 27	Missouri	Dec. 21
Dec. 27	Onawa, Ia.	Dec. 21
Dec. 27	Iowa City, Ia.	Dec. 21
Dec. 28	Austin, Tex.	Dec. 21
Dec. 28	Mobile, Ala.	Nov. 30
Dec. 28	Michigan	Dec. 21
Dec. 28	Minnesota	Dec. 7
Dec. 28	Louisiana	Dec. 14
Dec. 28	Olivia, Minn.	Dec. 14
Dec. 28	Missouri	Dec. 21
Dec. 28	Richmond Hill, N. Y.	Dec. 21
Dec. 28	Brooklyn, N. Y.	Dec. 21
Dec. 29	Long Island City, N. Y.	Dec. 21
Dec. 29	Kansas City, Kan.	Dec. 7
Dec. 29	Winamac, Ind.	Dec. 21
Dec. 30	Logansport, Ind.	Dec. 21
Dec. 30	Quebec	Nov. 23
Dec. 30	Quebec	Nov. 2
Dec. 30	Quebec	Nov. 9
Dec. 30	Quebec	Nov. 16
Dec. 30	Quebec	Nov. 30
Jan. 2	St. Louis, Mo.	Dec. 7
Jan. 2	Tacoma, Wash.	Dec. 21
Jan. 3	Independence, Kan.	Dec. 21
Jan. 4	Rio Vista, Calif.	Dec. 21
Jan. 5	Larned, Kan.	Dec. 7
Jan. 7	Duluth, Minn.	Sept. 28
Jan. 10	Albemarle, N. C.	Dec. 21
Jan. 11	Wichita, Kan.	Dec. 21
Jan. 23	Spokane, Wash.	Dec. 21
Jan. 24	Faribault, Minn.	Dec. 14

INDUSTRIAL WORK

Jan. 2	St. Louis, Mo.	Dec. 7
Jan. 4	Delaware, O.	Dec. 14

BUILDINGS

Dec. 26	Camden, N. J.	Dec. 21
Dec. 26	Detroit, Mich.	Dec. 21
Dec. 28	Lockhart, Tex.	Dec. 21
Dec. 28	Kenosha, Wis.	Nov. 30
Dec. 28	Butte, Mont.	Dec. 21
Dec. 28	Hancock, Mich.	Dec. 21
Dec. 28	St. Charles, Mo.	Dec. 7
Dec. 30	Aitkin, Minn.	Dec. 21
Jan. 2	Olean, N. Y.	Nov. 9
Jan. 2	Duluth, Minn.	Nov. 23
Jan. 2	Lawrence, Kan.	Dec. 14
Jan. 2	Providence, R. I.	Dec. 21
Jan. 2	Rome, Ga.	Dec. 21
Jan. 2	Dover, Del.	Dec. 21
Jan. 3	Cleveland, O.	Dec. 14
Jan. 3	Farmersville, O.	Dec. 21
Jan. 4	Arlington, O.	Dec. 14
Jan. 4	Baker, La.	Dec. 14
Jan. 5	Bath, N. Y. Adv. Dec. 14 and 21.	Dec. 14
Jan. 5	Detroit, Mich.	Dec. 21
Jan. 6	Newark, N. J.	Dec. 21
Jan. 10	Nashville, Tenn.	Dec. 7
Jan. 10	Grand Rapids, Mich.	Dec. 21
Jan. 11	Elizabeth, N. J.	Dec. 14
Jan. 15	Dallas, Tex.	Dec. 21
Jan. 19	Monticello, Ia.	Dec. 21
Feb. 1	Chicago, Ill.	Dec. 21
Mar. 23	Shreveport, La.	Nov. 9

FEDERAL GOVERNMENT WORK

Dec. 26	Barge—Wilmington, N. C. Adv. Nov. 30 to Dec. 21.	Nov. 30
Dec. 26	Remodeling—Rockford, Ill.	Dec. 7
Dec. 26	Scows—Portland, Ore.	Dec. 14
Dec. 26	Fuel Oil—Phila., Pa.	Dec. 14
Dec. 27	Post Office—Leesburg, Va.	Dec. 7
Dec. 27	Quarters—Edgewood Arsenal, Md. Adv. Dec. 14 and 21.	Dec. 14
Dec. 27	Covering Railroad Track—San Diego, Calif.	Dec. 7
Dec. 28	Hospital — Tupper Lake, N. Y.	Dec. 7
Dec. 28	Equipment, etc.—Tupper Lake, N. Y.	Dec. 7
Dec. 28	Radial Brick Stack—Tupper Lake, N. Y.	Dec. 7
Dec. 28	Water Tank—Tupper Lake, N. Y.	Dec. 7
Dec. 28	Remodeling—Phila., Pa.	Dec. 14
Dec. 28	Drainage System—Tupper Lake, N. Y.	Dec. 14
Dec. 28	Roads, etc.—Tupper Lake, N. Y. Adv. Dec. 14 and 21.	Dec. 14
Dec. 29	Changes — Birmingham, Ala.	Dec. 14
Dec. 30	Power House — Huntington, W. Va. Adv. Dec. 7 to 21.	Dec. 7
Dec. 30	Dredging Pump—Florence, Ala. Adv. Dec. 7 to 21.	Dec. 7
Jan. 3	Piers—Pearl Harbor, H. T.	Nov. 16
Jan. 3	Drainage System—Del Rio, Tex.	Dec. 14
Jan. 3	Alterations—El Paso, Tex.	Dec. 21
Jan. 5	Dredge—Cincinnati, O. Adv. Dec. 7 to 21.	Dec. 7
Jan. 9	Fuel Oil—Wash., D. C.	Dec. 21
Jan. 9	Extension — St. Cloud, Minn.	Dec. 21
Jan. 10	Extension—Elmira, N. Y.	Dec. 21
Jan. 12	Remodeling—Boston, Mass. Adv. Dec. 21.	Dec. 21
Jan. 15	Metal Work — Key West, Fla. Adv. Dec. 21.	Dec. 21
Jan. 15	Pipe Line Dredge—Cincinnati, O.	Dec. 14
Jan. 16	Hospital—Tacoma, Wash. Adv. Dec. 14 and 21.	Dec. 14
Jan. 16	Hull—Nashville, Tenn. Adv. Dec. 21.	Dec. 21
Jan. 18	Furnishing and Placing Rock—New Orleans, La. Adv. Dec. 21.	Dec. 21
Jan. 24	Refrigerating and Ice-Making Plant—Pearl Harbor, H. T.	Dec. 14

MISCELLANEOUS

Dec. 26	Bulkhead, etc. — Mineola, N. Y. Adv. Dec. 14 and 21.	Dec. 14
Dec. 26	Rails and Poles—Cape May, N. J. Adv. Dec. 21.	Dec. 21
Dec. 27	Dock Wall—Buffalo, N. Y. Adv. Nov. 30 to Dec. 21.	Nov. 30
Dec. 27	Tractor—Luverne, Minn.	Dec. 21
Dec. 28	Crane—Kilgard, B. C.	Dec. 14
Dec. 29	Crane—Phila., Pa.	Dec. 21
Dec. 29	Coal Handling Equipment — Phila., Pa.	Dec. 21
Dec. 29	Long Island City, N. Y.	Dec. 21
Dec. 30	Grain Elevator—Port Arthur, Ont.	Dec. 21
Dec. 31	Crushed Stone — Toronto, Ont.	Dec. 21
Jan. 1	Transmission Line—Spokane, Wash.	Nov. 9
Jan. 2	Steel Water Pipe, etc.—Terra Bella, Calif.	Dec. 21
Jan. 11	Structural Steel—New Orleans, La. Adv. Dec. 21.	Dec. 21
Jan. 15	Bulkhead — Jersey City, N. J. Adv. Dec. 21.	Dec. 21
Jan. 31	Dry Dock Machinery—Esquimalt, B. C	Dec. 21

Where name of official is not given inquiries should be addressed to City Clerk, County Clerk or corresponding official.

Waterworks

PROPOSED WORK

W. Va., Bluefield—Take bids about Jan. 1, for 2,000,000 gal. filtration plant. $75,000. Alvord, Burdick & Howson, 8 South Dearborn St., Chicago, engrs.

O., Columbus—See "Streets and Roads."

Mich., Detroit—Furnishing and erecting 80 filter operating tables for filtration plant at Waterworks Park, to New York Continental Jewel Filtration Co., 45 East 17th St., New York City, $27,000.

Ill., Litchfield — Plans artificial water basin, 300,000,000 gal. capacity. $165,000. L. Starr, city engr.

Wis., Fond du Lac—City plans to purchase pump for Water Dept., about 5-10,000 gal. per day, steam driven and boiler, also large amounts of c.i. mains and service connections. $50,000. G. H. Staunchfield, City Hall, engr.

Wis., Fond du Lac—See "Sewers."

Kan., Lakin—Dec. 22, to vote on $33,000 bond issue for new waterworks system. E. T. Archer & Co., 609 New England Bldg., Kansas City, Mo., engrs.

S. D., White River—Voted $30,000 bonds for waterworks plant, reservoir and sewerage system. T. H. Green, city clk.

Mo., St. Charles—Defeated $65,000 bonds for mains, machinery, meters, etc. Noted Nov. 23.

Tex., Perryton—Voted $75,000 bonds for waterworks. H. E. Elrod Eng. Co., Dallas, (street address not available), engrs.

Tex., Rotan—Voted $50,000 bonds for complete waterworks plant. Engineer not selected. Noted Nov. 2.

Okla., Wyneewood—Dec. 28, to vote on $50,300 bonds for tank, tower, mains, pumping equipment and reservoir. V. V. Long & Co., 1300 Colcord Bldg., Oklahoma City, engrs.

Ore., Vernonia—Voted $40,000 bonds for waterworks. C. D. White, mayor. Engineer not selected.

Wash., Creston—Voted $16,000 bonds installing water system. Engineer not selected.

Calif., Pasadena—Voted $300,000 bonds for water distribution system and $250,000 bonds to acquire existing water system.

Calif., Sacramento—See "Streets and Roads."

Ont., Toronto—York Twp. plans 6 in. c.i. mains in Avonlea Blvd. $775. Alameda Ave.

Waterworks (Continued)

$4,650, Eglington Ave. $7,350, Gray Ave. $2,150, Larratt Ave. $6,000, Cheyne Ave. $4,400, Kennedy Ave. $2,900, Hamstead Ave. $3,500, Jones Ave. $1,110. F. Barber, 40 Jarvis St., engr.

Ont., Toronto—Plans extension to filtration plant at Toronto Island, increasing capacity by 20,000,000 gal. per day, incl. mechanical rapid sand filters, slow sand filters and drifting sand filters, $300,000; also plans 7,500 lin.ft. 6 in. mains in Orchard View Blvd., Edith and Belsize Drives, Glengarry Ave., Greer, Manor and Tilson Rds. $25,000. R. C. Harris, city engr.

BIDS DESIRED

N. Y., Buffalo—Dec. 27, by A. W. Kreinheder, comr. Pub. Wks., Municipal Bldg., 116 ton standard pipe and fittings, and 5 ton special fittings.

Pa., Phila.—Dec. 29, by F. H. Caven, dir. Pub. Wks., City Hall, furnishing and installing turbo centrifugal pumps, 250 g.p.m. capacity, $20,000, 300 fire hydrants, $10,000; 150 six in 100 eight in., and 50 twelve in. stop valves, $10,000; 400 ton 6, 8 and 12 in. c.i. pipe, 40 ton 6, 8 and 12 in. specials. C. E. Davis, City Hall, engr.

Pa., Phila.—Dec. 29, by F. H. Caven, dir. pub. wks., City Hall, furnishing and installing 2 sand machines for removing, washing and replacing sand. $50,000. C. E. Davis, City Hall, engr.

N. C., Albemarle—Jan. 11, by Mayor, constructing brick and concrete addition to filterhouse, concrete filter tubs, concrete coagulation basin, brick and concrete chemical house also filter plant equipment. G. C. White, Durham, engr.

Tenn., Nashville—Dec. 29, by P. Sharpe, mayor, 30 in. gate valves for Water Dept.

O., Cleveland—Comr. of Purchases taking bids 2 steam turbine reduction gear driven forced draught fans, 2 steam turbine driven centrifugal boiler feed pumps, 1 hydraulic driven centrifugal boiler feed pump, 4 hydraulic turbine stoker drives, for Fairmount Pumping Station.

O., Cleveland—Jan. 12, at office of Commissioner Purchases & Supplies, City Hall, constructing inlet and outlet works at Fairmount Reservoir for Div. of Water. A. V. Ruggles, comr. Water; adv. this issue.

Ill., Hinsdale — Jan. 22, by Bd. Local Impvts. furnishing and laying 12,395 ft. 12 in. and 830 ft. 10 in. c.i. mains, with hydrants, valves, etc. $51,000. Krehbiel Co., 730 West Monroe St., Chicago, engrs. Noted Sept. 14.

S. D., Rapid City — Jan. 3, improving waterworks system, incl. 2,000,000 gal. rein.-con. reservoir, furnishing, laying and hauling c.i. pipe, valves, hydrant, etc. $150,000. Burns & McDonnell Eng. Co., 402 Interstate Bldg., Kansas City, Mo., engrs.

CONTRACTS AWARDED

N. Y., Long Island City—N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., New York, mains in Astoria, Schurz and Sigel Aves., etc., to F. L. Paino, 572 1st St., Brooklyn, $39,731. Noted Dec. 14.

Pa., Phila.—Water piping in Northeast sewage treatment plant, to Roberts Filter Co., Rawn and Tacowanda Sts., $101,900. Engrs. est. $150,000. Noted Dec. 7.

Miss., Bay St. Louis—For 3 motor driven fire pumps, to Southern Jobbers Supply Co., 515 South Peters St., New Orleans, La., $3,880; steel tower and tank, to Pittsburg Des Moines Steel Co., Praetorian Bldg., Dallas, Tex., $5,540; pipe and specials, steel pipe fittings, to Natl. Cast Iron Pipe Co., Tarrant City, Birmingham, Ala., $26,462; concrete reservoir, hauling pumps, installing same foundation for pump house, building pumphouse and hauling material for same, to Chambers & Bowers, Hammond, La. Noted Nov. 2.

O., Cleveland—For 1 story, 30 x 35 ft., concrete pumphouse and substructure at Lake Shore Blvd. Pumping Plant, to Western Reserve Constr. Co., 2244 Murray Hill Rd., $19,736. Noted Dec. 7.

Ia., Chariton—To A. Phelps & Son, Knoxville, settling basin building, $11,380; Pittsburgh Filter Co., Des Moines (street address not available) filtration plant incl. 2 filters, $6,575. Noted Nov. 23.

Ia., Marshalltown — For 6,000,000 gal. pump, to Allis-Chalmers Mfg. Co., West Allis, (branch of Milwaukee), Wis., $37,700.

Kan., Abilene—To Burt & Tripp, Herington, pipe line, $15,964; to Chicago Bridge & Iron Co., 37 West Van Buren St., Chicago, 250,000 gal. tank on 100 ft. tower, $14,090; to Fairbanks-Morse Co., 1218 Liberty St., Kansas City, Mo., one 75 hp. engine, $5,190, two 250 hp. motors, $1,925.

Sewers

PROPOSED WORK

R. I., Pawtucket—Plans new sewer in sections of Pond St. and Rhode Island Ave. $33,000. Dept. Public Wks., City Hall, engrs.

N. Y., Batavia—Plans to purchase electrically driven automatic lift for sewage disposal plant. $6,000-$12,000. F. D. Emerson, city engr.

Ky., Ashland—Plans sewerage system. $250,000. Alvord, Burdick & Howson, 8 South Dearborn St., Chicago, engrs.

Ill., Lemont—Making plans sewerage system. $200,000. Marr, Green & Co., 400 North Michigan Ave., Chicago, engrs.

Ill., Morris — Making plans sewers in North Liberty St. $35,000; in 4th Ward $65,000. Consoer Eng. Co., 140 South Dearborn St., Chicago, engrs.

Wis., Fond du Lac—Haentze Floral Co., c/o R. D. Haentze, 4107 Linden St., plans vitr. clay sewers, watermains, gas mains and connections, and paving on 14th, 15th and Ellis Sts. $25,000. Engineer not selected.

Ia., Earlville — Making plans sanitary sewerage system. $30,000. C. H. Currie Eng. Co., Webster City, engrs.

Ia., Mechanicsville—Making plans complete sewerage system. $30,000. C. H. Currie Eng. Co., Webster City, engrs.

Kan., Ottawa—Making plans new sewage disposal plant. $125,000. Black & Veatch, 701 Mutual Bank Bldg., Kansas City, Mo., engrs.

S. D., White River—See "Waterworks."

Mo., Harrisonville — Jan. 9 to vote on $60,000 bonds sewerage system.

Tex., Denton — Making plans complete disposal plant and sewers. $50,000. Koch & Fowler, Sumpter Bldg., Dallas, engrs.

Tex., Waxahachie—City Comn. had plans prepared and takes bids in January sewer extensions. $25,000. W. M. Finley, Waxahachie, engr.

Calif., Sacramento — See "Streets and Roads."

Calif., Watts—Had plans prepared 64,745 lin.ft. 6 in., 41,180 lin.ft. 8 in., 17,926 lin.ft. 10 in., 2,552 lin.ft. 18 in., 5,660 lin.ft. 15 in., and 5,660 lin.ft. 20 in. cement pipe sewers. To exceed $400,000. Koebig & Koebig, Title Insurance Bldg., Los Angeles, engrs.

BIDS DESIRED

N. J., Newark—Jan. 9, by Passaic Valley Sewerage Comrs., 128 Market St., constructing Newark local sewer connections, in Carlisle Pl., Ogden, Passaic and Clark Sts., 1,405 lin.ft. earth excav. and refilling, in trench, 1,405 lin.ft. 12-18 in. vitr. pipe, 110,000 lb. steel for reinforcement, etc. J. R. Van Duyne, ch. engr.

Va., Richmond—Jan. 16, by Dept. Pub. Wks., sewers in various streets. A. J. Saville, dir. pub. wks.; adv. this issue.

O., Lakewood (Cleveland P. O.)—Dec. 30, 5,250 ft. 48 in. vitr. clay or segmental block intercepting sewer. E. A. Fisher, City Hall, engr.

Wis., North Milwaukee—Dec. 29, by J. H. Fowles, secy., Metropolitan Sewerage Comn. of Milwaukee Co., 508 Market St., Milwaukee, sewer in 32nd St. and Hampton Rd. to 48th St. and Roosevelt Dr., 9,665 lin.ft. 40-60 in. concrete sewer, 1,800 lin.ft. 42 mi. sewer in rock excav. $200,000. F. C. Hatton, 508 Market St., engr.

BIDS RECEIVED

Mich., Detroit—Opened bids (1) Extension 2, Alter Rd. Sewer in Mack Ave. (2) Watson St. Arm east of Bates St. Sewer (3) extension to 3rd Ave. Relief Sewer (4) Byron Ave. Arm south of Highland Park Arm (5) Byron Ave. Arm north of Highland Park Arm, also following Laterals (6) 3794 (7) 3800 (8) 3801 (9) 3802 (10) 3803 (11) 3804 (12) 3806 (13) 3807 (14) 3809 (15) 3810, brick, monolithic concrete, segment block and vitr. crock, from W. Blanck & Co., 827 Ford Bldg., (1) $54,090 (4) $25,530 (7) $22,134 (8) $5,375 (10) $11,194 (13) $5,881 (14) $5,658 (15) $8,056; J. Wagner, 2735 West Grand Blvd., (1) $62,820; J. A. Mercier Co., 216 Hammond Bldg., (1) $58,040 (2) $67,285; Hammen & Co., 4612 Woodward Ave., (2) $64,165 (5) $30,702 (6) $8,332 (14) $6,515; R. D. Baker, 1631 Elmhurst Ave., (2) $67,320 (3) $30,443 (4) $24,120; C. R. Lennane & Co., 2631 Woodward Ave., (3) $30,761; J. Porath, 745 Griswold St., (3) $30,953 (4) $22,635 (5) $29,339; A. Rossi, 5307 Pennsylvania Ave., (5) $30,799; A. Arcari, Detroit (street address not available), (6) $7,921 (9) $4,977; Detroit Drainage Constr. Co., 5099 Lemay Ave., (6) $7,067 (7) $21,494 (8) $5,609 (11) $12,700 (12) $6,000; Western Constr. Co., 1208 Ford Bldg., (7) $19,517 (11) $11,844 (12) $6,313 (13) $5,470 (14) $6,027 (15) $8,177; Longley & Barton, Detroit Savings Bank Bldg., (9) $3,900; H. Pontarelli, Wolverine Hotel, (10) $11,167 (12) $6,086 (15) $8,661; A. G. St. John, 400 Penobscot Bldg., (10) $9,900 (11) $11,300.

Tex., Harlingen—For 7 mi. sewers in various streets, incl. 34,040 ft. 8-18 in. pipe, 9 manholes, 16 flush tanks, from Krueger & Hayner, Moore Bldg., San Antonio, $61,054. Noted Nov. 30.

CONTRACTS AWARDED

N. Y., Brooklyn—E. Riegelmann, boro pres., Boro Hall, to J. A. Murphy, sewer in East 17th St., 97% of engrs. est. ($6,695); to Manmill Constr. Co., 2035 Douglass St., Ocean Ave., 122% of engrs. est. ($600), Riverdale Ave. 123.8% of engrs. est. ($1,602), sewer basins in Snyder St., 109% of engrs. est. ($350), 87th St. 128% of engrs. est. ($650); to G. L. Schrade, 693 Flatbush Ave., sewer in East 37th St., 88.4% of engrs. est. ($3,694), 15th Ave., 127.27% of engrs. est. ($2,346); to Gustin Morris Contg. Co., Creek St. and Anabel Pl., Long Island City, Brooklyn Ave., 131% of engrs. est. ($2,232). Noted Dec. 7.

Pa., Phila.—To R. Lombardi Lincoln Bldg., sewer in York Rd., $28,404; to J. Lombardi, Lincoln Bldg., sewer in Salmon, Stockley, Walker and Watts Sts., 67th and Torresdale Aves., $26,672; to J. J. McHugh, 1716 Race St., sewer in Haines, Howard and McCollum Sts., $27,025; to W. H. Garson, 5033 Brown St., sewer in McKean, Oxford and Sansom Sts., $18,835, Erie Ave., Darson, 54th and 55th Sts., $27,227; to E. T. Bennis, 641 East Chelten Ave., sewer in Washington Lane, Ellett and Ognotz Sts., $33,365; to E. Leva, 3851 North 10th St., sewer in 65th Ave., American, Atlantic, Kingston, Venango and Ognotz Sts., $34,039; to E. Pascuzzi, Lincoln Bldg., sewer in Abbotts Ave., Louden and Arnold Sts., $29,877; to A. Joffola, 1203 Tree St., intercepting sewer in 40th Ward lowlands $43,586. Noted Dec. 7.

Fla., Jacksonville — Constructing storm water and sanitary sewers, Sects. A and E, to Bryan & Co., Jacksonville, (street address not available), $29,809 and $58,122 respectively; Sects. C, D and F, to Adams-Evans & Co., Atlantic Bank Bldg., $26,890, $50,023 and $28,373 respectively; Sect. B, to Adams-Evans & Co., Atlantic Bank Bldg., and Bryan & Co., Jacksonville, (street address not available). Noted Nov. 9.

Mich., Springwells—B. P. Esper, village clk., Sect. 20 trunk sewer, to C. R. Lennane, 2631 Woodward Ave., Detroit, $74,618; Sect. 21 trunk sewer, to Detroit Drainage Constr. Co., 5099 Lemay Ave., Detroit, $40,854. Noted Dec. 14.

Kan., Syracuse — To Burt & Tripp, Hutchinson 19,110 ft. 8 in. vitr. pipe $0.40, 8,120 ft. 10 in. $0.55, 9,020 ft. 12 in. $0.70, etc., total $36,006. Noted Nov. 16.

Waste Disposal

BIDS RECEIVED

Ont., Toronto — Opened bids 400 ton municipal garbage incinerator, from Francis Hankin Co., 20 St. Nicholas St., Montreal, Que., representatives of C. O. Bartlett & Snow Co., Cleveland, O., $203,000; Laurie & Lamb, Bd. Trade Bldg., Montreal, Que., representatives of Heenan & Froud, England, $227,910.

CONTRACTS AWARDED

Tex., Waco—For 20 ton incinerator, to Superior Garbage & Incinerator Co., Dallas, (street address not available), $18,500. Noted Oct. 26.

Bridges

PROPOSED WORK

Conn., Hartford—Pub. Wks. Dept. plans bridge over Park River on Bonner St. $36,000. R. N. Clark, City Hall, engr.

Fla., Gainesville—Alachua Co., plans 200 ft. steel bridge over Swannee River. D. F. Thomas, Gainesville, engr.

Wisconsin—See "Street and Roads."

Wis., Milwaukee—Park Bd., City Hall, and Chicago & Northwestern Ry., West Jackson Blvd. and Franklin Sts., Chicago, having plans prepared rein.-con. viaduct on Mason St., one 120 ft. span and two 40 ft. spans, 80 ft. wide. $230,000. Park Bd. takes bids in spring. Railway appropriated $130,000 toward cost. A. C. Clas, 445 Milwaukee St., engr.

Ia., Ft. Dodge—Webster Co. had plans prepared 288 ft., 6 span, cantilever, deck girder bridge, concrete, at North limits of Ft. Dodge. $32,300. Iowa Hy. Comn., Ames, engrs.

Bridges (Continued)

Missouri—State Hy. Dept., Jefferson City, plans three 80 ft. steel truss and five 20 ft. rein.-con. slab spans, 20 ft. roadway, 2 rein.-con. piers, etc., over St. Francis River, on Sta. 1 plus 00, on road from Kennett to Poplar Bluff, Federal Aid Project 221, Dunklin Co.; three 60 ft. steel truss spans-skewed, concrete floor with one 20 ft. rein.-con. slab approach span each end, 18 ft. roadway, 2 rein.-con. piers, etc., over Shoal Creek, on Sta. 1780 plus 64 on road from Granby to Monett, Federal Aid Project 155, Newton Co.; one 140 ft. steel truss and six 20 ft. I-beam spans, approach spans each end, 20 ft. roadway, 2 rein.-con. piers, etc., over west fork of Grand River on Sta. 480 plus 10 on road from Stanberry to Albany, Federal Aid Project 37B, Gentry Co.; one 140 ft. steel truss span, 20 ft. roadway, 2 rein.-con. abutments, etc., over Little St. Francis River, on Sta. 700 plus 00, on road from Ironton to Fredericktown, Federal Aid Project 203, Madison Co.; two 85 ft. steel truss spans, 20 ft. roadway, 1 rein.-con. pier, etc., over Floodway Drainage Ditch, on Sta. 442 plus 93 on road from Kennett to Hayti, Federal Aid Project 212, Dunklin Co.; two 100 ft. steel truss spans, 20 ft. Roadway, 1 rein.-con. pier, etc., over Auxvasse River on Sta. 213 plus 90 on road from Fulton to St. Louis near Fulton, Federal Aid Project 144, Callaway Co.; two 100 ft. steel truss spans, 20 ft. roadway, 1 rein.-con. pier, etc., over James River on Sta. 255 plus 00, on road from Springfield to Ozark, near Gallaway, Federal Aid Project 162, Greene Co.; one 90 ft. and two 60 ft. rein.-con. arch spans, open spandrel, 20 ft. roadway, 2 rein.-con. piers, etc., over Salt Fork River on Sta. 35 plus 40 on road from Marshall to Arrow Rock, near Marshall Junction, Federal Aid Project 16, Saline Co.; one 120 ft. and two 80 ft. steel truss spans, 20 ft. roadway, 2 rein.-con. piers, 1 rein.-con. and 1 mass concrete abutments, etc., over Big Piney River on Sta. 1091 plus 00 on road from Cabool to Houston, Federal Aid Project 90 C, Texas Co.; one 140 ft. steel truss span, 20 ft. roadway, 2 rein.-con. bents, 2 rein.-con. retaining walls, etc., over Drainage Ditch 8, on Sta. 799 plus 00 on road from Marble Hill to Advance, Federal Aid Project 208, Bollinger Co., eight 40 ft. rein.-con. deck girder, one 120 ft. and two 76 ft. steel truss spans, 20 ft. roadway, 4 rein.-con. piers, 8 rein.-con. bents, etc., over Castor River Diversion Channel, on road from Advance to Marble Hill, Federal Aid Project 208, Bollinger Co. B. H. Piepmeier, state highway engr.

Tex., Ft. Worth—See "Streets and Roads"

Wash., Colfax—Whitman Co. voted $25,000 bonds 78 ft. steel girder bridge, 1,400 cu.yd. concrete in girder, 150 ton reinforcing. L. R. Sampson, Colfax, engr.

Ontario—See "Railways."

Ont., Scarboro—Scarboro Twp. having plans prepared one 30 ft. and several 20 ft. concrete highway bridges in Dist. 1, slab, beam, girder and arch types. $40,000. C. E. Fraser, Stop 19, Kingston Rd., Toronto, engr.

BIDS DESIRED

Missouri—See "Streets and Roads."

Missouri—Dec. 27, by State Hy. Dept. at div. office Neosho, three 60 ft. steel truss spans-skewed concrete floor with one 20 ft. rein.-con. slab approach span each end, 18 ft. roadway, 2 rein.-con. piers and 2 rein.-con. bents, over Shoal Creek, on Sta. 1780 plus 64 on road from Granby to Monett, Federal Aid Project 155, Newton Co. B. H. Piepmeier, Jefferson City, state highway engr.

Missouri—Dec. 28, by State Hy. Dept. at div. office Carthage one 70 ft. and two 60 ft. rein.-con. arch spans, 20 ft. roadway spandrell filled, 2 rein.-con. abutments and 2 rein.-con. piers, over Spring River, on Sta. 581 plus 00, on road from Carthage to Joplin, Federal Aid Project 84, Jasper Co. B. H. Piepmeier, Jefferson City, state highway engr.

Missouri—Dec. 28, by State Hy. Dept., at div. office Platte City, three 120 ft. and one 60 ft. steel spans, 18 ft. roadway, 2 rein.-con. bents and 3 rein.-con piers, over Platte River, on Sta. 7 plus 00, on road from Kansas City to St. Joseph, Federal Aid Project 93, Platte Co. B. H. Piepmeier, Jefferson City, state highway engr.

Missouri—Dec. 28, by State Hy. Dept. at div. office Springfield, two 100 ft. steel truss spans, 20 ft. roadway, concrete piers and abutments, over James River on road from Springfield to Ozark, Federal Aid Project 162, Greene Co. B. H. Piepmeier, Jefferson City, state highway engr.

BIDS RECEIVED

Alabama—State Hy. Dept., Montgomery, 566 ft. bridges on Opelika-Waverly Rd., Lee Co., 18 ft. roadways, one 80 ft. steel span, remainder concrete girder type, from Mitchell Bros., Birmingham (street address not available) $34,790; Stanley & Singer Constr. Co., Lafayette, $37,221; F. M. Dobson & Son, 107 Pine St., Montgomery, $37,306. Noted Nov. 16.

Missouri—State Hy. Dept., Jefferson City, opened bids Dec. 2, (1) one 40 ft., one 45 ft. and three 35 ft. I-Beam spans, 20 roadways, 2 concrete bents on concrete filled tubes, on road from Poplar Bluff to Fisk, Federal Aid Project 204, Sect. B, Butler Co. (2) six 8 ft. rein.-con. slab spans, skewed, 24 ft. roadway, concrete piers and abutments on rock fill, on Sta. 12 plus 37 on road from Mexico eastward, State Project Route 22, Sect. 9, Audrain Co. (3) three 15 ft. rein.-con. slab spans, 20 ft. roadway, concrete piers and abutments, over north fork of Cave Creek, and one 50 ft. steel truss span, 20 ft. roadway, etc., over south fork of Cave Creek, on road from Poplar Bluff to Elsinore, State Project Route 16, Sect. 73, Carter Co (4) two 70 ft., one 50 ft. and one 60 ft. steel truss spans, 20 ft. roadways, concrete piers and concrete pile bents, over branch of Bee Creek, on road from Faucette to New Market, State Project Route 1, Sect. 34, Buchanan Co. (5) one 100 ft. steel truss span, 20 ft. roadway, and four 20 ft. rein.-con. slab spans, concrete piers and bents, over Fox River on Sta. 88 plus 50, also one 60 ft steel truss span, 20 ft. roadway and four 15 ft. rein.-con. slab spans, concrete piers and concrete pile bents, over branch of Sugar Creek, on Sta. 192 plus 00 on road from Wayland to Canton, State Project Route 9, Sect. 7, Clark Co. (6) one 60 ft. steel and two 25 ft. rein-con. deck girder spans, 20 ft. roadways, concrete abutments, on road from West Co. line to Hamilton, State Project Route 8, Sect. 13, Caldwell Co. (7) one 140 ft. steel truss and one 20 ft. rein.-con. slab spans, on road from Fairfax to Tarkio, State Project Route 1, Sect. 7, Atchison Co. (8) one 35 ft. rein.-con. deck girder and one 80 ft. steel truss spans, 20 ft. roadways, concrete abutments on road from West Co. line to Hamilton, State Project Route 8, Sect. 12, Caldwell Co., from Robertson, Ellis & Taylor, Poplar Bluff, (1) $14,438; Service Constr. Co., Poplar Bluff, (1) $15,180; W. A. Leach, Poplar Bluff, (1) $15,304 (3) $10,537; Henderson-Washam, Alexandria, (2) $4,105; C. P. O'Reilley, Wainright Bldg., St. Louis, (2) $4,387; Coopers Constr. Service Co., Federal Reserve Bank Bldg., St. Louis, (3) $10,480; H. E. Pyley, Walnut Ridge, Ark., (3) $11,639; F. F. Marsh & Co., Jefferson, Ia., (4) $57,812; O. H. Schmitt, St. Joseph (street address not available), (4) $58,235; Missouri Valley Bridge & Iron Co., 4th and Walnut Sts., Leavenworth, Kan., (4) $59,971; General Constr. Co., Syndicate Trust Bldg., St. Louis, (5) $30,282; Washam & O'Dell, Alexandria, (5) $30,469; Riley & Bailey Constr. Co, International Life Bldg., St. Louis, (5) $31,301; Harrison Eng. & Constr Co., Wichita, Kan. (street address not available), (6) $26,795 (8) $23,331; Koss Constr. Co., 2818 5th Ave., Des Moines, Ia., (6) $28,194 (8) $24,673; Cameron Joyce & Co., Keokuk, Ia., (6) $28,883; W. R. Larson Constr. Co., 519 Secy. Natl. Bank Bldg., Sioux Falls, S. D., (7) $29,109; Cook & O'Brien Constr. Co., 305 Ry. Exch. Bldg., Kansas City, (7) $29,929; Phelan-Shirley Co., 306 South 24th St., Omaha, Neb., (7) $30,685; Widell Co., 1st Natl. Bank Bldg., Mankato, Minn., (8) $22,146.

Calif., Los Angeles—Bd. Supervs. Los Angeles Co. constructing (1) bridge on State Highway over mouth San Gabriel River at Alamitos Bay (2) bridge on State Highway over Topango Creek near Santa Monica, from W. Ledbetter Co., Pacific Electric Bldg., (1) $42,300 (2) $47,600; Wheeler Co., Los Angeles (street address not available), (1) $43,672 (2) $46,000; Mercereau Bridge & Constr. Co., 313 North Ave. 22, (1) $45,145; F. H. Greene, 1328 South Western Ave., (2) $41,700. Noted Nov. 9.

CONTRACTS AWARDED

Georgia—State Hy. Dept., Atlanta, 576 ft. rein.-con. bridge on Hawkinsville Abbeville Rd., to M. Atkinson, Thomasville, $25,277. Noted Nov. 16.

Georgia—See "Streets and Roads."

Tex., Glen Rose—Sommerville Co., 2 concrete and steel bridges over Glen Rose and Booker Crossings on State Highways 10A and 25, to J. E. Harris Co., Colorado, $28,224. Noted Dec. 7.

Tex., Jefferson—Marion Co. 470 ft. steel and concrete bridge over Cypress River, one 150 ft. steel and twenty 16 ft. concrete spans, to Cock & Turner, Marshall, $40,000. Noted Nov. 23.

Wash., Seattle—Bd. Pub. Wks., superstructure for bridge over West Waterway, West Spokane St., City design, furnishing and delivering steel at site, to Bethlehem Shipbuilding Corp., Morris Bldg., Phila., $276,871; erecting steel, to Gerrick & Gerrick Co., Cenrtal Bldg., $106,151; furnishing electrical equipment, to Westinghouse Electric and Mfg. Co., Alaska Bldg., $23,295. Total $406,317. Noted Dec. 14.

Dams

PROPOSED WORK

Ont., Timmins—See "Industrial Works."

Railways

PROPOSED WORK

Missouri—Bd. Directors, St. Louis Southwestern R.R. (Cotton Belt System), Ry. Exch. Bldg., St. Louis, approved $5,000,000 improvement program to include reballasting during next 3 years, line from Illmo, Mo., to Texarkana, Tex., and replacing 75 lb. rails with 85 lb. rails on 100 mi. main line in Malden, Mo., and Stuttgart, Ark., districts, also new machinery for shops at Pine Bluff, Ark., and Tyler, Tex., cost $1,200,000 to $1,472,000; purchasing 500 steel-frame and 500 automobile type box cars and 200 convertible coal cars, $3,000,000; converting engines used in Texas from coal to oil burners, $528,000. W. S. Hanley, Tyler, Tex., ch. engr.

Ontario—Temiskaming & Northern Ontario Ry., North Bay, instead of electrifying main line as proposed, have decided to build line to James Bay, 100-125 mi. from Oil Can Portage, on Abitibi River, incl. 80 lb. rails, trestles, bridges, telegraph lines, etc. $6,000,000. S. B. Clement, ch. engr. Noted Nov. 9, under Miscellaneous.

Excavation, Drainage, Irrigation

PROPOSED WORK

Michigan — Oakland Co., (Pontiac), Wayne Co., (Detroit) and Washtenaw Co., (Ann Arbor) had plans prepared for 8,300 ft. drain, 6 ft. wide at bottom, average depth 8.6 ft., in Northville, Lyon and Salem Twps. G. A. Dingman, County Bldg., Detroit, engr.

Mont., Franklin — Franklin Irrigation Dist., Franklin, plans dam in Musselshell River, pipe lines, laterals, flumes, etc., to irrigate 40,000 acres in Wheatland and Golden Valley Counties. $700,000. Gerharz & Jaqueth, 514 1st Natl. Bank Bldg., Great Falls, engrs.

Wash., Washougal—Clark Co. formed Washougal Dyking Dist. and plans to improve 3,000 acres. $120,000. Address Washougal Dyking Dist. Com., Washougal. Engineer not selected.

Ore., Scappoose — Scappoose D. D. lets contract about Feb. 1, for canals, dikes, tide-gates, electrically operated pumps, etc., to drain 5,000 acres of Columbia River overflow land, in Columbia Co. $200,000. E. E. West, pres. Barr & Cunningham, Spalding Bldg., Portland, engrs.

Calif., Big Pine—G. B. Warren plans to irrigate 640 acres, involving 3½ mi. canal, small dam to store 360 ac.ft. and pumping plant to lift stored water to high land.

BIDS DESIRED

Ind., Logansport—Dec. 29, by Comrs. Cass and Miami Counties at Logansport, 6.5 mi. Graham-Spence Drain, 370,000 cu.yd. excav. Bids to include removal and replacement of all bridges on public highways affected by work. Bidders must also state kind of dredge, length of boom, etc.

Calif., Terra Bella—See "Miscellaneous."

BIDS RECEIVED

Minn., Owatonna—Steele Co. opened bids Dec. 1, Judicial Ditch 12, 65,052 lin.ft. 6-32 in. tile, 2 timber bridges, 5 floodwater control structures, 1 rein.-con. headwall, 58 surf water inlets: material from National Cement Co., Mankato, $24,000; labor from Morristown Block and Tile Co., Morristown, $20,000. Noted Nov. 23.

Wash., Seattle—Improving Wetmore Slough Drain, from T. Hanson, 105 North 84th St., $19,555, $19,005, $26,535 and $25,985; J. N. Clapp, Burke Bldg., $24,490, $26,852, $25,045 and $37,407; C. L. Creelman, Walker Bldg., $28,281, $29,230, $36,200 and $37,150, Romano & Co., 1102 East Denny St., $27,110, $26,170, $38,500, $37,560, Engrs. est. $24,990 open drain, $35,470 closed drain.

Excavation, Drainage and Irrigation
(Continued)

Calif., Patterson—Concrete lining 2½ mi. main laterals, from N. M. Ball, Porterville, $0.06 per sq.ft.; W. Knutson, Patterson, $0.08; Carlson Bros., Turlock, $0.095.

CONTRACTS AWARDED

Wis., Juneau—Dodge Co. Farm Drainage Bd., Mayville, 7,800 ft. 10-14 in. tile drain, one concrete bulkhead, equal amount of open ditch work, to Maunesh Drainage Co., Waterloo. Engrs. est. $25,000 Noted Oct. 5. Oct. 5.

Calif., Blythe—Palo Verde Joint Levee Dist., constructing Raab Shoo-fly, 341,500 cu.yd. excav., 341,500 cu.yd. team embankment, 30 acres clearing, to P. B. Engh, Pacific Electric Bldg., Los Angeles, $57,420; Raab Cut-off, 247,200 cu.yd. excav., 125 acres clearing, Hauser Cut-off, 195,700 cu. yd. excav., 75 acres clearing, Casad Cut-off, 81,200 cu.yd. excav., to C. Thompson, Hotel Clark, Los Angeles, $153,406. Noted Oct. 5.

Calif., Meridian—Recl. Dist. 70, cleaning out and enlarging main drainage canal, involving 160,000 cu.yd excav., deepening ditches, 750 lin.ft. 8 in., 16 gauge, 80 lin. ft. 12 in., 14 gauge and 80 lin.ft. 24 in. 12 gauge, corrugation iron culvert, etc., to Haas & Doughty, Merchants Exch. Bldg., San Francisco, $32,000.

Streets and Roads

PROPOSED WORK

N. C., Greensboro—City Council having surveys made widening, grading, curbing and guttering Greene, West Lee, West Sycamore and Depot Sts. To exceed $25,000. P. C. Painter, city mgr.

Fla., Bradentown—Manatee Co. election Jan. 9, to vote on $100,000 bonds macadam surfacing 16 mi. road from Myakka to De Soto Co. line; $50,000 bonds 20 mi. Sandy, Edgville and Duette Rds. McElroy Eng. Co., Giddens Bldg., Tampa, engrs.

Fla., Palatka—Comrs. Putnam Co. take bids in January constructing 22 mi. Florahome Rd., 54,000 cu.yd. grading, 12,820 cu.yd. sand clay surfacing. R. J. Hancock, clk.

La., Springville—Police Jury of Livingston Parish will sell $80,000 bonds Jan. 2 constructing roads in Dist. 3. H. B. Berthelot, pres.

Kentucky—State Hy. Dept., Frankfort, having plans prepared and soon takes bids surfacing 15 mi. road in Bullitt, Spencer and Nelson Counties; surfacing with waterbound macadam or gravel 9 mi. Vanceburg-Maysville Rd. from Tollesboro to Valley Station; grading 31 mi. Mayo Trail, from Louisa to Paintsville, Lawrence and Johnson Counties. J. Boggs, state highway engr.

Ohio—Dept. Highways and Pub. Wks., Columbus, cancelled bids which were to be received Dec. 19, grading, bridging and paving 1.545 mi. Sect. "B" Dayton-Lakeview Rd., Clark Co., rein.-con., $50,827, bituminous macadam, tar or asphalt $42,105. Noted Dec. 7.

O., Columbus — Plans grading, curbing, laying mains and paving 2 mi. Parsons Ave. from Livingston Ave. to viaduct, 44 ft. brick $172,813, asphalt $163,948; 754 ft. Taylor Ave. from viaduct to 5th Ave., 26 ft., brick $21,803, asphalt $19,638; 2,040 ft. Leonard Ave. from viaduct to Brighton Ave., 36 ft., asphalt $39,980, brick $45,408. R. H. Simpson, City Hall, engr.

Ind., Albion—Noble Co. plans grading and graveling 15,125 ft. Clarence Leiter Rd., 20 ft., $26,050; 27,258 ft. F. L. Gandy Rd., 16 ft., $25,652; concrete and gravel surfacing 8,310 ft. William Appleman Rd., 16 ft., 5,421 sq.yd. concrete, $27,389. W. T. Knox, Albion, engr.

Ind., Columbia City—Whitley Co. plans grading and graveling 45,158 ft. Aaron Mishler Rd., 16 ft., $49,868; 18,577 ft. Austin Hibely Rd., 16 ft., $29,304; 10,585 ft. County Rd. 2, 18 ft., $25,245; paving crushed stone, 7,992 ft. Rd. 3, 30 ft., $26,769. C. M. Auspaugh, Columbia City, engr.

Ind., Columbus—Bartholomew Co. plans grading, gravel and stone surfacing 29.154 ft. Sawyer Rd., 16 ft. $50,000. H. C. Thomas, Elizabethtown, engr.

Ind., Kokomo—Howard and Miami Counties plan paving 2 mi. Charles E. Leeson Rd., 16 ft., concrete. $55,000. E. Hunt, Kokoma, engr.

Ind., Marion — Grant Co. plans paving 2,125 ft. Dempsey Seybond Rd., 30 ft., stone and asphalt. $26,035. G. Swisher, Marion, engr.

Ind., Vincennes—Knox Co. plans gravel surfacing 12,885 ft. Royse Davis Rd., 16 ft., $25,348; 7,920 ft. John R. McClure Rd., 30 ft., $30,543. G. A. Haskin, Vincennes, engr.

Ind., Washington—Daviess Co. plans grading and graveling 17,530 ft. Andrew T. Myers Rd., 16 ft. $26,232. W. L. McCormick, Washington, engr.

Michigan—State Hy. Dept., Lansing, plans 282 mi. pavement, 81 mi. macadam, 449½ mi. gravel, and 120½ mi. grading and culvert work in 1923, costing $14,522,300. Program in detail by counties as follows: Alger Co., 7 mi. macadam, 5 mi. gravel, $110,000; Allegan Co. 2.75 mi. pavement, 6.75 mi. gravel, $156,500; Alpena Co., 4.75 mi. gravel, $44,500; Antrim Co., 9.5 mi. gravel, $77,000; Arenac Co. 0.3 mi. gravel, $4,000; Baraga Co., 18 mi. gravel, $90,000; Barry Co. 2.5 mi. pavement, 15 mi. gravel, $218,500; Bay Co. 13.5 mi. pavement, 8.5 mi. grading, $383,000; Benzie Co., 9.3 mi. gravel, $68,000; Berrien Co., 5.28 mi. pavement, $158,000; Branch Co., 4 mi. gravel $25,000; Calhoun Co., 4.7 mi. pavement, $141,000; Cass Co., 9.5 mi. pavement, 11 mi. macadam, $472,000; Charlevoix Co., 4.25 mi. pavement, 4 mi. gravel, $138,000; Cheboygan Co., 0.7 mi. pavement, 10 mi. gravel, 1.8 mi. grading, $126,500; Chippewa Co., 9 mi. macadam, 2 mi. gravel, $116,000; Clare Co., 1 mi. pavement, 6.85 mi. gravel, $71,000; Clinton Co., 5.25 mi. gravel, $52,500; Crawford Co., 6.5 mi. gravel, 2 mi. grading, $70,000; Delta Co., 1.4 mi. pavement, $30,000; Dickinson Co., 1.5 mi. pavement, 10 mi. gravel, $108,000; Eaton Co., 5.75 mi. pavement, $165,000; Emmet Co., 2 mi. pavement, 1.25 mi. macadam, $83,000; Genessee Co., 8 mi. pavement, 1 mi. grading, $248,000; Gladwin Co., 4 mi. gravel, $45,000; Gogebic Co., 14 mi. gravel, $83,000; Grand Traverse Co., 1.75 mi. pavement, 1 mi. gravel, $66,000; Gratiot Co., 5.5 mi. pavement, $165,000; Hillsdale Co., 2.75 mi. pavement, 5.5 mi. gravel, $138,900; Houghton Co., 5.5 mi. gravel, $55,000; Huron Co., 3 mi. pavement, 19 mi. gravel, $330,000; Ingham Co., 15 mi. pavement, $455,000; Ionia Co., 4.25 mi. pavement, 9.75 mi. gravel, $219,500; Iosco Co., 7.5 mi. gravel, $71,500; Iron Co., 5.5 mi. macadam, 9 mi. gravel, $144,000; Isabella Co., 0.6 mi. pavement, 0.5 mi. gravel, $24,000; Jackson Co., 15 mi. pavement, $500,000; Kalamazoo Co. will expend $157,500; Kalkaska Co., 9 mi. gravel, $74,000; Kent Co., 12.83 mi. pavement, 5 mi grading, $372,000; Keweenaw Co., 6 mi. gravel, $60,000; Lake Co., 5.5 mi. gravel, $44,000; Lapeer Co., 3.25 mi. pavement, 0.75 mi. gravel, $106,000; Leelanau Co., 6 mi. gravel, $36,000; Lenawee Co., 8 mi. pavement, 15 mi. grading, $330,000; Livingston Co., 5.85 mi. pavement, 1 mi. gravel, $183,000; Luce Co., 6 mi. macadam, $60,000; Mackinaw Co., 5 mi. macadam, 45 mi. gravel, $554,000; Macomb Co., 14.5 mi. pavement, $435,000; Manistee Co., 2 mi. macadam, 7 mi. gravel, $88,700; Marquette Co., 17 mi. macadam, 4.5 mi. grading, $376,500; Mason Co., 6 mi. pavement, 2 mi. gravel, $211,700; Mecosta Co., 2 mi. gravel, etc., $18,700; Menominee Co., 18.6 mi. gravel, $202,000; Midland Co., 5.5 mi. gravel and 5.5 mi. grading, $55,000; Missaukee Co., 6.75 mi. gravel, $57,000; Monroe Co., 9.5 mi. pavement, 1.4 mi. grading, $400,000; Montcalm Co., 9 mi. gravel, $69,000; Montmorency Co., 7 mi. gravel, $69,000; Muskegon Co., 6.5 mi. pavement, 1 mi. macadam, $199,000; Newaygo Co., 0.88 mi. pavement, 6.75 mi. gravel, $78,300; Oakland Co., 16 mi. pavement, 0.75 mi. grading, $495,000; Oceana Co., 0.5 mi. macadam, 7.26 mi. gravel, $201,000, Ogemaw Co., 0.5 mi. pavement, 2.8 mi. gravel, $39,000; Ontonagon Co. 5.5 mi. macadam, 22 mi. gravel, $256,000; Osceola Co., 1 mi. pavement, 5.25 mi. gravel, $100,000; Oscoda Co., 7 mi. gravel, $53,000, Otsego Co., 5.9 mi. gravel, $57,000; Ottawa Co., 11.12 mi. pavement, 1 mi. grading, $303,000; Presque Isle Co., 1 mi. pavement, 5 mi. gravel, $65,000; Roscommon Co., 6 mi. gravel, $46,000; Saginaw Co., 7.6 mi. pavement, 6 mi. grading, $270,000; Sanilac Co., 2.5 mi. pavement, 32 mi. gravel, $413,000; Schoolcraft Co., 10 mi. macadam, 2.5 mi. gravel, 10 mi. grading, $176,000; Shiawassee Co., 3 mi. pavement, $88,000; St. Clair Co., 15 mi. pavement, $459,500; St. Joseph Co., 9 mi. pavement, 8 mi. gravel, $430,000; Tuscola Co., 5.5 mi. gravel, $55,000; Van Buren Co., 3.25 mi. pavement, 7.5 mi. gravel, $172,500; Washtenaw Co., 11.4 mi. pavement, 1 mi. gravel, 25.8 mi. grading, $494,000; Wayne Co., 15 mi. pavement, 12.5 mi. grading, $518,000; Wexford Co., 2.5 mi. pavement, 1 mi. gravel, 1.25 mi. grading, $81,000. F. F. Rogers, state highway comr.

Mich., Detroit—Having plans completed paving with 3½ in. sheet asphalt on 8 in. concrete, 2,200 sq.yd. Wager St. from Savery to McQuade Sts., 26 ft., $14,180, 2,000 sq.yd. Eastlawn Ave. from Charlevoix to Mack Aves., 26 ft., $11,490, 10,000 sq.yd. Tireman Ave. from Livernois Ave. to Detroit Terminal R.R., 30 ft., $58,600, 7,500 sq.yd. Glendale Ave. from Linwood to Dexter Aves., 26 ft., $40,150, 3,500 sy.yd. Dodge St. from city of Hamtramck (branch of Detroit) to Mt. Elliott Ave., 26 ft. $1[illegible],300 sq.yd. Linsdale Ave. from Colfax Ave. to Epworth Blvd., 26 ft., $4,900, 2,[illegible] sq.yd. Fleming Ave. from Six Mile Rd. to Glendale Ave., 26 ft., $13,310, 2,000 sq.yd. Quincy Ave. from Hazelwood Ave. to Joy Rd., 26 ft., $11,390, 600 sq.yd. Gibson Ave. from Tuscola to Selden Aves., 18 ft., $3,6[illegible],3,800 sq.yd. Casper Ave. from St. Stephens to Michigan Aves., 20 ft., $21,760, 1,000 sq.yd. Hussar St. from Dragoon to Artillery Aves., 26 ft., $5,800, 2,900 sq.yd. Nardin Ave. from Bordeau to Burlingame Aves., 26 ft., $15,130, 3,000 sq.yd. Burton Ave. from Michigan to Pelouze Aves., 26 ft., $16,320. J. W. Reid, city engr.

Ill., De Kalb—Making plans paving various streets. $60,000. W. Hay, city engr. Consoer Eng. Co., 140 South Dearborn St., Chicago, consult. engrs.

Ill., Dwight—Making plans paving various streets. $60,000. W. Hay, city engr. 140 South Dearborn St., Chicago, engrs.

Ill., Lemont—Making plans paving various streets. $100,000. Marr, Green & Co., 400 North Michigan Ave., Chicago, engrs.

Wisconsin—Following are county appropriations for state and county aid road and bridge construction during 1923. Douglas Co. $305,727, C. Hanson, Superior, comr.; Wood Co. $230,994, E. Morris, Wisconsin Rapids, comr.; Burnett Co. $17,057, G. E. Miller, Webster, comr.; Door Co. $50,203, J. Laurie, Sturgeon Bay, comr.; Winnebago Co. $243,103, J. Binning, Oshkosh, comr.; Fond du Lac Co. $1,325,059, G. Treleven, Fond du Lac, comr.; Dunn Co. $72,750, F. Stewart, Menomonie, comr.; Barron Co. $116,947, E. Gleason, Barron, comr.; Manitowoc Co. $134,651, J. Connell, Manitowoc, comr.; Vernon Co. $245,372, A. Ristow, Viroqua, comr.; Waupaca Co. $65,169, J. Huffcut, Waupaca, comr.; Bayfield Co. $68,471, J. Friberg, Washburn, comr.; Kenosha Co. $131,954, J. F. Herzog, Kenosha, comr.; Green Co. $500,000 incl. concrete road on Trunk Highways 20 and 42, C. J. Smith, Monroe, comr.; Trempealeau Co. $143,853, E. F. Rotering, Whitehall, comr.; Washington Co. $721,955, C. Johnson, West Bend, comr.; Clark Co. $99,817, O. J. Weyhmiller, Neillsville, comr.; Iowa Co. $75,599, C. Wonn, Dodgeville, comr.; Marathon Co. $158,062, J. H. Vogt, Wausau, comr.; Monroe Co. $170,841, C. Millard, Sparta, comr.; Kewaunee Co. $98,886, M. Shaw, Algoma, comr.; Columbia Co. $192,884, J. T. Henton, Portage, comr.

Wis., Elkhorn—Walworth Co. plans to improve following roads in 1923; Elkhorn-Burlington Rd., State Trunk Highway 20, 18 ft., concrete $150,000; 1.48 mi. Sharon-Darien Rd., 9 and 18 ft. concrete $35,000; 4.5 mi. Whitewater Rd., Trunk Highway 12, 18 ft. concrete, $130,000; Lake Geneva-Genoa Junction Rd., Trunk Highway 12, 18 ft. concrete, $270,000; 1.5 mi. Elkhorn-Tibbit Rd., 16 ft. concrete $35,000; East Troy-Beulah Rd., 15 ft. gravel $22,000, Delavan-Walworth Rd., 15 ft. gravel $24,000; Spring Prairie-East Troy Rd., 15 ft. gravel $15,000; 4.7 mi. Delavan-Millard Rd., 15 ft. gravel, $25,000. H. J. Peters, comr.

Wis., Fond du Lac—See "Sewers."

Wis., Fond du Lac — Plans paving 7th, 8th, Park Ave. to McKinley Sts., 5th, McWilliams, Pucker, Connell, Garfield, Johnson, Ruggels, Western Sts., 25-30 ft., 1 or 2 course concrete, sheet asphalt or asphaltic concrete, concrete curb and gutter. A. M. Hunter, city clk. Engineer not selected.

Wis., Oshkosh — Making plans paving Elm, Cleveland, Lemmer, Grove, Irving, Monroe, Ashland, Arlington and 9th Sts., 25-30 ft., asphalt or concrete, concrete curb and gutter. G. H. Randall, city engr.

Wis., Racine—Racine Co. plans to grade and gravel 5 mi. North Point Rd., town of Caledonia, 18 ft., $3,000, Six Mile road in Raymond, 18 ft. $6,000, High St. Rd. in Waterford, 18 ft., town Line Rd., in Dover and Burlington, 18 ft. $6,000, English Settlement-Rochester Rd. in Dover, 18 ft., $3,000; bond issue construction, grading and concrete surfacing River Rd. in Caledonia, 18 ft., $100,000; Union Grover-Twelfth St. Rd. in Union Grove, 18 ft. $90,000, Browns Lake Rd. in Burlington, 18 ft., $67,000, Wind Lake relocation in Norway, 18 ft., $21,144, Burlington-Geneva Rd. in Burlington, 18 ft., $36,144. W. A. Bechthold, comr.

Ia., Dyersville—Making plans paving 52 blocks, rein.-con., vibrolithic, asphaltic concrete and brick block. $150,000. N. B. Barber, Waterloo, engr.

Ia., Williamsburg—Completing plans and takes bids Feb. 1 for 50 blocks paving, various types. Currie Eng. Co., Webster City, engrs. Noted Oct. 5.

Missouri—State Hy. Dept., Jefferson City, plans grading, etc., 18 mi. road from Hol-

Streets and Roads (Continued)

comb northwestwardly, 26 ft., State Project 221, Dunklin Co.; 1.363 mi. road from Clark northwestwardly, 24 ft., State Project 20.140 Randolph Co.; 1.218 mi. road from Warrenton southwardly, 26 ft., State Aid Project 20.221, Warren Co.; 5.498 mi. road from New London northwardly and southwestwardly, 26 ft., State Aid Project 20.168, Ralls Co.; 1809 mi. road from Hayti southeastwardly toward Caruthersville, 26 ft., State Aid Project 20.224, Pemiscot Co.; 20.226 mi. road from Koshkonong northwestwardly, 26 ft., State Aid Project 20.226, Oregon Co.; 2.433 mi. road from West Ely westwardly, 26 ft., State Aid Project 20.188, Marion Co.; 1.748 mi. road from Warrensburg southwardly, 26 ft., State Aid Project 20.200, Johnson Co.; 0.5 mi. road from Fulton eastwardly, 26 ft., State Aid Project 20.227, Callaway Co.; 1.4 mi. road from Maysville westwardly, 26 ft., State Aid Project 20.203, De Kalb Co.; 1.046 mi. road from Troy eastwardly, 26 ft., State Aid Project 20.69B, Lincoln Co. B. H. Piepmeier, state highway engr.

Tex., Angleton—Brazoria Co. plans grading, shell surfacing and bituminous topping 13.82 mi. State Highway 19 and 19 A, 16 ft. $156,000. E. N. Gustafson, co. engr.

Tex., Cameron—Milam Co. plans to improve State Highway 43 in. Rd. Dist. 5. $75,000. State Highway Comn., Austin, granted Federal Aid. A. F. Mitchell, co. engr.

Tex., Cisco—Making plans and takes bids about January 14 paving 4 mi. various streets, 40 ft., brick. $30,000. Elrod Eng. Co., Dallas, (street address not available), engrs.

Tex., Corsicana—Navarro Co. takes bids early next year surfacing 7.71 mi. State Highway 31, 12 ft., 12,139 cu.yd. crushed rock. $80,900. W. W. McClendon, co. engr.

Tex., Dallas—Election in January to vote on $49,000 bond issue paving White Rock Blvd. G. D. Fairtrace, city engr.

Tex., Ft. Worth — Attorney Generals Dept., Austin, approved $1,200,000 bond issue for roads and bridges in Tarrant Co. R. V. Glenn, co. engr.

Tex., Ft. Worth — Comrs. Tarrant Co. take bids about January 1 graveling, grading, etc., 6½ mi. Mansfield Webb Rd., 14 ft., $30,000; 3 mi. Grapevine Cappell Rd., 14 ft., $25,000. R. V. Glenn, co. engr.

Tex., Granbury—Hood Co. plans gravel surfacing 14 mi. State Highway 10, 16 ft. $25,500. S. J. Cox, co. engr.

Tex., Houston—Attorney General's Dept., Austin, approved $250,000 bond issue for paving. J. C. McVea, city engr.

Tex., Paris — Lamar Co. making plans gravel surfacing 18.63 mi. State Highway 19 north and south of here, between Delta and Red River County lines, 12 ft. $45,000. W. M. Fooshee, co. engr.

Idaho, Lewiston—W. Osborn, dist. engr., state highway dept., having preliminary surveys made for 20 mi. road from Castle Creek to Grangeville, 16-20 ft. $400,000.

Ore., Portland—Takes bids about Feb. 1 grading, paving and curbing East Oak St. from 55th to 57th St., $2,018, Kingston Ave. from Ashby Heights to Fairview Ave., $4,435; paving and curbing East 73rd St. from Glison to Hasselo Sts., $8,685, Haight Ave. from Balandena to Alberta Sts., $5,076, East Salmon St. from East 41st to East 44th Sts., $7,140; also constructing sewer in Vaughn St. $2,008. O. Laurgaard, city engr.

California—State, Sutter Co. (Yuba City) and Sacramento Co (Sacramento), having preliminary plans prepared constructing 26 mi. road from north end of Natomas Blvd. to Oswald. $600,000. E. Von Geldern, Yuba City, Sutter Co. engr. D. Butler, Sacramento, Sacramento Co. engr.

Calif., Oakland—Had plans prepared improving Holly St. between Jones St. and 100th Ave., 42,780 sq.ft. grading, 1,437 lin. ft. concrete curb, 3,084 sq.ft. concrete gutter, 20,811 sq.ft. oil macadam pavement, 7,640 sq.ft. concrete walks; Madeline St. between Laguna and Peralta Sts., 2,655 cu.yd. excav., 988 lin.ft. concrete curb, 2,016 sq.ft. concrete gutter, 13,020 sq.ft. oil macadam pavement, 5,421 sq.ft. cement walks; Tyrrell St. between 47th St. and Courtland Ave., 2,371 cu.yd. excav., 772 lin.ft. concrete curb, 1,584 sq.ft. concrete gutter, 11,025 sq.ft. oil macadam pavement, 4,752 sq.ft. cement walks; Fullington Ave. from 39th Ave. southeasterly, 17,015 sq.ft. grading, 841 lin.ft. concrete curb, 1,701 sq.ft. concrete gutter, 8,437 sq.ft. oil macadam pavement, 4,254 sq.ft. cement walks; East 27th St. from Peralta Ave. northwesterly, 13,359 sq.ft. grading, 628 lin.ft. concrete curb, 1,315 sq.ft. concrete gutter, 7,051 sq. ft. oil macadam pavement, 3,087 sq.ft. cement walks; Porter St. from 39th Ave. southeasterly, 17,712 sq.ft. grading, 866 13,359 sq.ft. grading, 628 lin.ft. concrete gutter, 8,782 sq.ft. oil macadam pavement, 4,428 sq.ft. cement walks; 17th St. between Telegraph to Harrison Sts., 45,919 sq.ft. grading, 1,361 lin.ft. concrete curb with steel guard, reset 209 lin.ft. granite curb, 1,479 sq.ft. concrete gutter, 30,479 sq.ft. asphaltic concrete pavement, 362 lin.ft. 8 in .and 355 lin.ft. 12 in. pipe, etc. W. W. Harmon, city engr.

Calif., Sacramento—Plan election to vote on $1,250,000 bonds for street improvements, sewer and water main extensions, and constructing subways leading to city. A. Givan, city engr.

Ont., Toronto—Council passed by-law to widen Bloor St. from 66 to 86 ft. between Sherbourne St. and Spadina Ave., distance of ¾ mi. $1,500,000. R. C. Harris, city engr.

BIDS DESIRED

N. Y., Brooklyn—Dec. 28, by Park Bd. at office Dept. Parks, Municipal Bldg., New York City, grading and sheet asphalt paving, etc. Bay Parkway from Ocean Parkway to 59th St., here. F. D. Gallatin, pres.

N. Y., Long Island City—Dec. 29, by M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., curbing, laying sidewalks and paving 48th St. from Jackson to Polk Aves., 2nd Ward, McKinley Ave. from Central to Myrtle Aves.; paving Olmstead Pl. from Edsall to Central Aves., 2nd Ward, all foregoing permanent sheet asphalt on concrete; grading, curbing and laying sidewalks on Olmstead Pl. from Edsall to Central Aves. incl. 2 receiving basins on southerly corner of Edsall Ave.; grading, curbing and laying sidewalks on Linden St. from Forest to Prospect Aves.; repaving Grand St. from Flushing Ave. to (Old Flushing Rd.) Creek St., improved granite block on concrete.

N. Y., New York—Dec. 26, by J. Miller, pres. Manhattan Boro, Municipal Bldg., regulating and repaving Bway. at its intersection with Canal St., Bway. at its intersection with Chambers St., West St. and 5th Ave., all foregoing with granite block, Lenox Ave. and Dykman St., sheet asphalt; widening and repaving Canal St., granite block; curbing, recurbing, flagging, reflagging and paving West 190th St., etc., granite block.

N. Y., Richmond Hill—Dec. 28, by Park Bd. at office Dept. Parks, Municipal Bldg., New York City, improving main drive in Forest Park from Woodhaven Ave. to Union Turnpike, here. F. D. Gallatin, pres. Noted Dec. 14.

N. C., Albemarle—Jan. 10, by Mayor, 50,000 to 70,000 sq.yd. asphalt or other pavement, 28,000 ft. curb and gutter, 2,500 ft. granite curb, 800 sq.yd. concrete gutter, 26,000 cu.yd. grading, 3,500 ft. storm sewers, 17,700 ft. 6 and 8 in. c.i. water mains, 16,000 ft. 8 in. terra cotta sewer laterals G. C. White, Durham, engr.

Ga., Atlanta—Dec 26, by C. M. Holland, purch. agt., Courthouse, Fulton Co., grading 2 mi. Hemphill Ave. from Peachtree Creek to Moores Mill Rd., 50 ft., 57,000 cu. yd. bituminous macadam, earth and rock excav.; laying sheet asphalt wearing surface on granite block and macadam, 1½ mi. Piedmont Ave. from Ponce De Leon Ave. to East Hunter St., 40 ft., 31,000 sq.yd. asphalt. H. N. Hurt, Courthouse, engr.

La., New Roads—Jan. 2, by J. C. Cole, Lettsworth, chn. Bd. Supervs. Point Coupee Parish, grading 4.962 mi. Williams Highway, Rd. Dist. 7.

Ohio—Dec. 29, by Dept. Highways and Pub. Wks., Columbus, grading, bridging and paving roads in following counties:

Columbiana Co., Sec. "R," Cleveland-East Liverpool Rd., 2.325 mi., brick $85,431.

Columbiana Co., Sec. "B," Petersburg-Unity Rd., 1.327 mi., bituminous macadam, asphalt or tar $62,827, rein.-con. $64,978.

Cuyahoga Co., Sec. "J," Elyria-Twinsburg Rd., 5.324 mi., rein.-con. and brick $284,923, bituminous concrete and brick $284,923.

Cuyahoga Co., Sec. "A," Chagrin Falls-Cuyahoga Falls Rd., 2.75 mi., rein.-con. $103,750, brick $146,844, bituminous concrete $128,240, bitulithic $134,390, bitsolag $134,390; Kentucky rock asphalt $118,450.

Fulton Co., Sec. "Wauseon," Bryan-Wauseon Rd., 0.619 mi., rein.-con. $23,659.

Lorain Co., Sec. "R," Oberlin-Elyria Rd., 2.035 mi., brick $108,285, bituminous concrete $96,755, bitulithic $102,252.

Montgomery Co., Sec. "R," Dayton-Greenville Rd., 3.965 mi., Kentucky rock asphalt $139,419, rein.-con. $139,804.

Montgomery Co., Sec. "R," Germantown-Middletown Rd., 2.494 mi., grading and bridging $38,317.

Stark Co., Sects. "D2" and "E," Alliance-Minerva Rd., 3.96 mi., brick $163,452. L. C. Herrick, dir. highways.

Ind., Logansport—Dec. 30, by Auditor Cass Co., grading and graveling 18.480 ft. Charles V. Comer Rd., 16 ft. $28,027. J. Bennett, Logansport, engr.

Ind., Winamac—Dec. 29, by Auditor Pulaski Co., grading and graveling 74.185 ft. Jacob Getz Rd., 16 ft. $50,000. R. E. Nutt, Winamac, engr.

Michigan—Dec. 28, by State Hy. Dept., Lansing, grading and gravel surfacing 3.005 mi. Assessment Dist. Rd. 446, Van Burne and Cass Counties, 17,384 cu.yd. excav., 16,043 sq.yd. gravel. F. F. Rogers, state highway comr.

Ia., Iowa City—Dec. 27, by Auditor Johnson Co., grading 9.073 mi. primary road northwest of North Liberty, 105,796 cu.yd. excav., etc. Iowa Hy. Comn., Ames, engrs.

Ia., Onawa—Dec. 27, by Supervs. Monona Co., grading 6.67 mi. Primary Rd. Project 38, southeast of Soldier, and portion Mapleton-Ute Rd. $25,000. M. T. Kneal, co. engr.

Kan., Independence—Jan. 3, by Comrs. Montgomery Co. paving 9.365 mi. Independence Caney Rd., Federal Aid Project 121 A-D, 18 ft. $300,000. H. K. Hibbard, co. engr.

Kan., Wichita—Jan. 11, by Comrs. Sedgwick Co., c/o J. A. Clark, clk., paving, etc., 11 mi. Federal Aid Project 130, Sects. A includes 274.7 yd. concrete, 50,726 yd. paving, 24,287 lb. reinforcing, etc., Sect. B, 311.8 yd. concrete, 22,253 lb. reinforcing, 63,644 yd. pavement, etc. $350,000-$500,000. M. Roseberry, Courthouse, co. engr.

Missouri—Dec. 26, by State Hy. Dept. at div. office Greenfield, grading, etc., 5.5 mi. road from Greenfield northwardly, 24 ft., Federal Aid Project 213 A, Dade Co. B. H. Piepmeier, Jefferson City, state highway engr.

Missouri—Dec. 26, by State Hy. Dept. at div. office Harrisonville, 4.11 mi. road from Pleasant Hill eastward, 24 ft., State Aid Project 20.174, Cass Co., 14,432 cu.yd. earth excav., 5,869 cu.yd. borrow, 150.2 cu.yd. concrete masonry, etc. B. H. Piepmeier, Jefferson City, state highway engr.

Missouri—Dec. 26, by State Hy. Dept. at div. office Marble Hill, grading and 12 ft. gravel surface on 16.4 mi. road from Fredericktown to Marble Hill, 24 ft., Federal Aid Project 202, and 16 mi. road from Fredericktown to Marble Hill advance, 24 ft., Federal Aid Project 208, both in Bollinger Co. B. H. Piepmeier, Jefferson City, state highway engr.

Missouri—Dec. 26, by State Hy. Dept. at div. office Maysville, grading, graveling, bridging, etc., 1.4 mi. road from Maysville westward, 24 ft., State Aid Project 20.203, De Kalb Co. B. H. Piepmeier, Jefferson City, state highway engr.

Missouri—Dec. 26, by State Hy. Dept. at div. office Salem, grading and graveling 2.12 mi. road from Salem southwestwardly, 24 ft., State Aid Project 20.205, Dent Co. B. H. Piepmeier, Jefferson City, state highway engr.

Missouri—Dec. 27, by State Hy. Dept. at div. office Fredericktown, grading and 12 ft. gravel surface on 13.813 mi. road from Fredericktown westwardly, 24 ft., Federal Aid Project 203 A, Madison Co. B. H. Piepmeier, Jefferson City, state highway engr.

Missouri—Dec. 27, by State Hy. Dept. at div. office Houston, grading, etc., 11.1 mi. road from Houston southwardly, 26 ft., Federal Aid Project 90-C, 26 ft., Texas Co. B. H. Piepmeier, Jefferson City, state highway engr.

Missouri—Dec. 27, by State Hy. Dept. at div. office Neosho, grading, 12 ft. graveling and bridging 4.62 mi. road from Oklahoma to St. Louis, 24 ft., Federal Aid Project 155, Newton Co. B. H. Piepmeier, Jefferson City, state highway engr.

Missouri—Dec. 27, by State Hy. Dept. at div. office Ozark, grading and 200 ft. bridge, etc., on road from Ozark northwardly, 18 ft., Federal Aid Project 36, Christian Co. B. H. Piepmeier, Jefferson City, state highway engr.

Missouri—Dec. 27, by State Hy. Dept. at div. office Troy, grading, etc., 1.046 mi. road from Troy to Winfield, 16 ft., State Aid Project 20.69 B, Lincoln Co., 5,525 lin. ft. grading and 9,989 sq.yd. gravel pavement. B. H. Piepmeier, Jefferson City, state highway engr.

Missouri—Dec. 27, by State Hy. Dept. at div. office Warrensburg, 1.748 mi. road from Warrensburg southwardly, 24 ft., State Project 20.200, Johnson Co., 6,544 cu.yd. earth and 274 cu.yd. rock excav., 733 cu.yd. borrow, 37.2 cu.yd. concrete masonry, etc. B. H. Piepmeier, Jefferson City, state highway engr.

Missouri—Dec. 28, by State Hy. Dept. at div. office Caruthersville, 1.809 mi. road from Hayti to Caruthersville, 16 ft., State Aid Project 20.224, Pemiscot Co., 3,652 cu. yd. earth excav., 614 cu.yd. borrow, 13,343

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sq.yd gravel pavement, etc. B. H. Piepmeier, Jefferson City, state highway engr.

Missouri—Dec. 28, by State Hy. Dept. at div. office Cassville, grading, etc., 4.571 mi. road from Cassville northwardly, 26 ft., Federal Aid Project 151, Barry Co. B. H. Piepmeier, Jefferson City, state highway engr.

Missouri—Dec. 28, by State Hy. Dept. at div. office Fulton, grading, graveling and bridging road from Fulton northeastward, Federal Aid Project 20.227; grading and 12 ft. gravel and macadam surface on 4 mi. Natl. Old Trails Rd. from St. Louis to Kansas City through Calwood-Williamsburg Special Rd. Dist., 24 ft., Federal Aid Project 144; grading and 12 ft. graveling 18 mi. road from Jefferson City to Fulton, through New Bloomfield Special Rd. Dist., 24 ft., Federal Aid Project 97, all Callaway Co. B. H. Piepmeier, Jefferson City, state highway engr.

Missouri—Dec. 28, by State Hy. Dept. at div. office Joplin, grading and 18 ft. concrete surface on 0.343 mi. road from Joplin to Carthage, on Carthage Special Rd. Dist., Federal Aid Project 84, Jasper Co. B. H. Piepmeier, Jefferson City, state highway engr.

Missouri—Dec. 28, by State Hy. Dept., at div. office Kennett, 5.696 mi. road from Senath to Clay, 16 ft., Federal Aid Project 209 A, Dunklin Co., 13,636 cu.yd. earth excav., 8,593 cu.yd. borrow, 31,470 sq.yd. 1 course plain concrete, 24,436 sq.yd. gravel surfacing, etc.; grading and gravel surfacing 7 mi. road from Kennett eastwardly and westwardly, 24 ft., Federal Aid Project 212, Dunklin Co.; grading, etc., 18 mi. road from Holcomb northwestwardly, 24 ft., Federal Aid Project 221, Dunklin Co. B. H. Piepmeier, Jefferson City, state highway engr.

Missouri—Dec. 28, by State Hy. Dept. at div. office Platte City, grading, etc., 1.016 mi. road from Platte City westwardly, 24 ft., Federal Aid Project 93, also grading and 18 ft. brick pavement on concrete base, etc., on 4.703 mi. road on Jefferson Highway from north line of Parkville Special Rd. Dist. to east line of Platte Co., 24 ft., both in Platte Co. B. H. Piepmeier, Jefferson City, state highway engr.

Missouri—Dec. 28 by state Hy. Dept. at div. office Springfield, grading and constructing bridge and approaches on road from Springfield to Ozark, 26 ft., Federal Aid Project 162, Greene Co. B. H. Piepmeier, Jefferson City, state highway engr.

Tex., Austin—Dec. 28, by G. S. Matthews, judge Travis County, grading, gravel and crushed stone surfacing 5.6 mi. State Highway 3 A, Garfield Rd., 16 ft., 792.1 sq.yd. concrete, 21,461 cu.yd. roadway, 23,241 cu.yd. borrow excav., 16,754 cu.yd. gravel, 1,125 cu.yd. crushed stone, 1,500 lin.ft. concrete piling. $65,000. O. Leonard, co. engr.

Wash., Spokane—Jan. 23, by A. Baker, Courthouse, paving 7.5 mi. Plaza West, 20 ft., 90,000 sq.yd. concrete, $187,500; 8 mi. Trent Rd. from Trent Bridge to Idaho State Line, 20 ft., 96,000 sq.yd. concrete, $200,000; 10 mi. Chattaroy-Elk Rd., 20 ft., 120,000 sq.yd. concrete, $250,000; 6 mi. Five Mile Rd., 20 ft., 72,000 sq.yd. concrete, $150,000; 7.5 mi. Hite Rd. west of Deep Creek, 20 ft., 90,000 sq.yd. concrete, $187,500.

Wash., Tacoma—Jan. 2, by Pierce Co., paving 3 mi. Sumner-Buckley Highway, Bond Rd. 8, concrete; Alexander Ave. from East 11th St. to its terminus near Todd Shipyards, concrete; constructing Burnham Hunt Rd. from southerly end of Burnham Hunt pavement at Gig Harbor, thence south 1.582 ft. to site of proposed outside ferry landing. E. A. White, Tacoma, co. engr.

Calif., Rio Vista—Jan. 4, by F. J. Kalbep, town clk., paving with warrenite-bitulithic on bituminous base with header boards, concrete curbs and gutters, corrugated metal culverts, various street in Dists. 1 and 2. To exceed $25,000. Noted Oct. 5.

BIDS RECEIVED

Pa., Ebensburg—Supervs. Cambria Co. opened bids Dec. 11, paving 5,800 lin.ft. Jacksontown Twp. Rd. to Summerhill, vitr. brick on concrete, from McClure & Bigner, Johnstown, $66,603; G. T. Morgan Constr. Co., Woolf Blk., Johnstown, $72,220; Owen & Plummer, Inc., Otto Bldg., Johnstown, $74,528. Noted Nov. 23.

Alabama—State Hy. Dept., Montgomery, grading, surfacing and bridging (1) 10.04 mi. section and (2) 8.63 mi. section of road between Montgomery Co. line and Union Springs, Bullock Co., grading and gravel surfacing (3) 13.897 mi. Opelika-Waverly Rd., Lee Co., from D. R. Cook & Co., Selma, (1) $225,878 (2) $100,350; Vaugh-Davis Constr. Co., Montgomery, (street address not available), (1) $229,194; Kenan & Kyser, Selma, (2) $91,915; P. A. Goldsmith, 743 North Decatur St., Montgomery, (1) $229,953; Lawrence, Nixon & Phillips, Jackson, Miss., (2) $99,595; R. D. Chambers & Co., West Point, Ga., (3) $172,049; Stanley & Singer Constr. Co., Lafayette, (3) $176,465; Mitchell Bros., Birmingham (street address not available), (3) $181,569. Noted Nov. 16.

Louisiana — State Hy. Dept., Reymond Bldg., Baton Rouge, opened bids Dec. 1, grading and gravel surfacing 16 mi. Project 114, Monroe-Ruston Highway, Sect. B, from Meyer-Greenwald Co., Monroe, $136,390; Lawrence, Nixon & Philips, Jackson, Miss., $147,649; J. D. Reilly, New Orleans (street address not available), $166,146. Noted Nov. 23.

Missouri—State Hy. Dept., Jefferson City, opened bids Dec. 2, (1) 4.964 mi. road from Clinton Co. line to Hamilton, 18 ft., State Project Route 8, Sect. 12, Caldwell Co. (2) 4.94 mi. road from Warrensburg southward, 30 ft., Johnson Co. (3) 4.974 mi. road from Kansas City to St. Louis, 26 ft., Jackson Co. (4) 4.942 mi. road from Blue Ridge east, State Project Route 2, Sect. 5, Jackson Co. (5) 4.469 mi. road from Opolis to Asbury, 18 ft., State Project Route 57, Sect. 2, Jasper Co. (6) 3.15 mi. road from Lexington to Wellington, 18 ft., State Project Route 20, Sect. 10, Lafayette Co. (7) 3.53 mi. road west of Bethany, 18 ft., State Project Route 4, Sect. 24, Harrison Co., from Harrison Eng. & Constr. Co., Wichita, Kan. (street address not available) (1) $210,156 (3) $223,570 (4) $163,544; Widell Co., 1st Natl. Bank Bldg., Mankato, Minn., (1) $241,133; Koss Constr. Co., 2818 5th Ave., Des Moines, Ia. (1) $226,248 (4) $167,816; A. L. Cook, Ottawa, Kan. (2) $33,987; G. A. Woods Constr. Co., Smithville (2) $35,863; C. L. Johnson, Warrensburg, (2) $35,975 (6) $112,816; Cook & O'Brien Constr. Co., 305 Ry. Exch. Bldg., Kansas City, (3) $201,839 and $222,931 (4) $159,469 (6) $112,535; V. E. Koch, Box 604, Joplin, (5) $76,200; Carterville Constr. Co., Carterville, (5) $78,336; Du Bois & Co., 126 East 1st St., Wichita, Kan., (5) $80,385; J. O. Patterson & Constr. Co., 310 Ridge Bldg., Kansas City (6) $116,700; Rand Constr. Co., 1007 New York Life Bldg., Kansas City (7) $114,845. Noted Nov. 23.

Mo., St. Louis—Bd. Pub. Serv., City Hall, opened bids Dec. 12, grading (1) 8,600 ft. Esther Ave., 5,025 cu.yd. grading, 500 cu.ft. macadam, 3,470 cu.ft. cinders, etc., engrs. est. $6,250 (2) 3,000 ft. Goodfellow Ave., 9,960 cu.yd. grading, 1,000 cu.ft. macadam, 10,930 cu.ft. cinders, etc., in connection with 18,140 cu.yd. grade, which is to be done by Terminal R.R. (3) 700 ft. Tennessee Ave., 4,860 cu.yd. grading, 500 cu. ft. macadam, 2,835 cu.ft. cinders, etc., engrs. est. $5,200, from Webb-Kunze Constr. Co., 5927 Fyler Ave., (1) $5,037 (2) $10,209 (3) $5,234; Manegold Constr. Co., Title Guaranty Bldg., (1) $5,158 (3) $5,057; Hoolan Constr. Co., Wainwright Bldg., (1) $6,253 (2) $9,038; Fruin-Colnon Constr. Co., Merchants Laclede Bldg. (2) $5,618; F. B. Grant Constr. Co., 810 Chestnut St., (3) $5,055. Noted Nov. 23.

Tex., Edinburg—Hidalgo Co. grading and surfacing with (a) rein.-con. base with 1 in. cold rolled asphalt top, (b) rein.-con. base with 2 in. hot mix asphalt top, (c) macadam base with 2 in. hot mix asphalt top, (d) 2 course rein.-con. using 2 in. trap rock for top course, from F. P. McElwrath, Corsicana, (a) $462,433 (b) $431,696 (c) $461,583; W. L. Pearson & Co., 827 First Natl. Bank Bldg., Houston, (a) $481,098 (b) $490,455 (c) $462,529; Smith Bros., Sumpter Bldg., Dallas, (a) $469,314 (b) $457,969 (c) $492,265. Noted Nov. 9.

Tex., Junction—Kimble Co. grading and gravel surfacing 8.75 mi. State Highway 27, 16 ft., 883 cu.yd. concrete, 41,505 cu.yd. earth roadway and 4,219 cu.yd. loose rock excav., 10,858 cu.yd. gravel surfacing, 73,394 lb. reinforcing, from W. T. Hutto & Sons, Gonzales, $48,118; G. Alvis, Winnsboro, $54,408; Tibbetts Constr. Co., 209½ 8th St., Ft. Worth, $55,860. Engrs. est. $52,157.

Tex., Kaufman—Kaufman Co. grading, etc., (1) 9.37 mi. Highway 15 from Terrell west to Talley-Forney Rd., 24 ft. (2) 10.31 mi. Highway 15 from Van Zant Co. line west, and from Terrell east, 24 ft., from C. W. Burgess, 501 Dallas Co., State Bank Bldg., Dallas, (1) $55,164 (2) $23,590; McClung Constr. Co., Cleburne, (1) $55,620 (2) $25,117; McCoy & Richards, Arlington, (1) $58,620 (2) $25,913. Noted Nov. 23.

Tex., Pecos—Reeves Co. grading, gravel surfacing and bridging (1) 4.54 mi. Highway 27, Federal Aid Project 240-D, 16 ft. (2) 3.75 mi. State Highway 17 A, 16 ft., from Tibbetts Constr. Co., 209½ 8th St., Ft. Worth, (1) $27,180 (2) $17,739; L. B. Westerman, Balmorhea, (1) $30,602 (2) $21,798; Womack Constr. Co., Midland, (1) $32,661 (2) $24,187. Engrs. ests. (1) $31,685 (2) $25,000. Noted Nov. 23.

Wash., Seattle—Opened bids Dec. [illegible] paving 11th Ave. N., et al., 7,300 sq.yd. [illegible] in. concrete, 4,075 lin.ft. concrete and [illegible] lin. ft. asphaltic concrete curbing, 1,800 cu.yd. earth excav., from McHugh Constr. Co., [illegible] 3rd Ave. N., $25,632; V. Ragmalia, [illegible] Corliss Ave., $26,323; D. H. Trapp[illegible] Walker Bldg., $26,666. Engrs. est. $[illegible]

California—State Hy. Dept., Sacramento grading (1) 8.9 mi. road between Barkfield Junction and Coalinga, Fresno Co., 152,000 cu.yd. excav. (2) 9.8 mi. road between Hornbrook and Oregon State line, Siskiyou Co., 41,500 cu.yd. excav.; grading and gravel surfacing (3) 11.9 mi. between Willows and Glenn, Glenn Co., 27,500 cu.yd. excav., 41,200 cu.yd. gravel, (4) 4.5 mi. between Gilroy and San Felipe, Santa Clara Co., 35,000 cu.yd. excav., 8,600 cu.yd. gravel; grading and concrete paving (5) 8.5 mi. between Grenada and Yreka, Siskiyou Co., 36,000 cu.yd. excav., 12,900 cu.yd. concrete; surfacing with asphaltic concrete (6) 5 mi. between Roseville and Lincoln, Placer Co., 8,500 ton asphalt, from C. Miles, 2509 L St., Sacramento, (1) $120,803; Bates & Borland, Oakland Bank of Savings Bldg., Oakland, (1) $123,578; A. J. and J. L. Fairbanks, 625 Market St., San Francisco, (1) $140,553 (4) $69,269; Kaiser Paving Co., 1004 American Bank Bldg., Oakland, (2) $69,108 (5) $163,099; Blumenkranz & Vernon, Farmers & Merchants Bank Bldg., Stockton, (3) $136,697 (4) $72,897; V. R. Dennis Constr. Co., McMinnville, Ore., (3) $124,150 (6) $38,080; Pacific Bridge Co., East Water and Salmon Sts., Portland, Ore., (3) $141,861; Tieslau Bros., 1315 Allston Way, Berkeley, (4) $64,556; G. F. Atkinson, 308 Chamber of Commerce Bldg., Portland, Ore., (5) $178,317; J. A. Costello, Jr., 512 Mission St., San Francisco, (6) $35,530; A. Teichert & Sons, 1846 37th St., Sacramento, (6) $37,740. Noted Nov. 23.

Calif., Oakland — Improving 104th Ave. between 12th St. and Sunnyside Ave., (a) 117,759 sq.ft. grading (b) 361 ft. concrete curb (c) 1,719 ft. concrete gutter (d) 84,658 ft. oil macadam (e) 11,815 ft. concrete walks, from Hutchinson Co., 1706 Bway., (a) $0.0425 (b) $0.75 (c) $0.28 (d) $0.115 (e) $0.17; Oakland Paving Co., 5000 Bway., (a) $0.039 (b) $0.70 (c) $0.28 (d) $0.12 (e) $0.165; Bates & Borland, Oakland Bank of Savings Bldg., (a) $0.06 (b) $0.75 (c) $0.28 (d) $0.12 (e) $0.20. Noted Nov. 30.

Calif., Porterville—Improving Oak St., (1) 47,856 sq.ft. 1½ in. warrenite bitulithic on 5 in. hydraulic concrete (2) 1,342 lin.ft. concrete curbing (3) 320 lin.ft. corrugated metal culverts, from Clark & Henery Constr. Co., 38 South St., Stockton, (1) $0.38 (2) $0.675 (3) $4; N. M. Ball, Porterville, (1) $0.375 (2) $0.65 (3) $4.

Calif., San Francisco—City and San Francisco Co. improving north ½ Sloat Blvd. between 19th and 35th Aves., from Eaton & Smith, 407 11th St., $40,267; A. J. Raisch, 46 Kearny St., $40,688; Fay Impvt. Co., Phelan Bldg., $44,285. Noted Nov. 30.

Calif., Stockton—Supervs. San Joaquin Co., improving Brian and Woods Ferry Rd., (a) 4,500 cu.yd. grading (b) 4,170 ton base rock (c) 1,700 ton toprock (d) 770 ton screenings (e) 630 bbl. asphalt oil (f) 40 cu.yd. concrete, from Irey & Holden, Lodi (a) $0.35 (b) $2.20 (c) $3.05 (d) $3.15 (e) $4 (f) $27; Blumenkranz & Vernon, Commercial Savings Bank Bldg., (a) $0.75 (b) $3.40 (c) $3.75 (d) $3.90 (e) $4.50 (f) $30. Noted Nov. 23.

CONTRACTS AWARDED

Rhode Island—State Bd. of Public Roads, Providence, to Lane Constr. Co., 37 Colony St., Meriden, Conn., paving 1.32 mi. Smithfield Ave. from Pawtuxet Ave. to Lonsdale Ave., in Lincoln, $57,987, 1.8 mi. Ten Rod Rd. from Wickford Junction easterly to Tower Hill Rd., in North Kingston, $43,441; to Greenough Constr. Co. South Acton, Mass., 2.46 mi. Kingston Rd. from Usquepang to West Kingston Station, $53,783; to B. C. Jordan, 1244 Elmwood Ave., Providence, 2.05 mi. Apponang Rd. from Pawtuxet Bridge to Elmwood Ave., in Warwick, $58,040. Noted Oct. 19.

N. Y., Brooklyn—E. Riegelmann, boro pres., Boro Hall, resurfacing Albany Ave. and repaving Ave. R with permanent asphalt, to Cranford Co., 52 9th St., $22,295 and $3,657 respectively; repaving Church Ave., permanent asphalt, to Cleveland Trinidad Paving Co., Flushing, $20,574. Noted Nov. 23.

N. Y., Brooklyn—E. Riegelmann, boro pres., Boro Hall, paving Eldert Lane, to Sicilian Asphalt Paving Co., 41 Park Row, New York, $22,000; grading, curbing and flagging 78th St., to T. B. Scott, 671 Halsey St., $1,787; Ave. I and laying cement sidewalks on Flatbush Ave., to A. E. Castle, 331 Tilden Ave., $2,111 and $522 respectively. Noted Dec. 7.

N. Y., St. George—J. A. Lynch, pres. Richmond Boro, Boro Hall, paving from end of Richmond Turnpike at lineoleum

Streets and Roads (Continued)

factory gate to Carteret Ferry, concrete, to J. J. Kelly, 1150 Forest Ave., West New Brighton, $25,716. Noted Dec. 14.

Pa., Phila.—To Barber Asphalt Paving Co., Land Title Bldg., grading and paving Landsdowne Ave., $44,913; to D. DeLisle, 4842 Lightgow St., paving Bridge St., $25,212; to Byrne & Davis, 20th and Clearfield Sts., paving Churchview St., $40,422. Noted Dec. 7.

North Carolina—State Hy. Dept., Raleigh, grading, reconstructing base course and 110,300 sq.yd. asphaltic concrete surface on 10.64 mi. State Project 351, New Hanover Co., to Norfolk Equipment Co., Paul-Gale-Greenwood Bldg., Norfolk, Va., $189,545.

Georgia—State Hy. Dept., Atlanta, sand clay surfacing 10.1 mi. Washington-Lexington Rd., and one concrete bridge, Federal Aid Project 293, Wilkes Co., to W. C. Hill, Abbeville, S. C., $37,342; 7.2 mi. Washington-Thomason Rd., Federal Aid Project 295, Wilkes Co., to Stanley & Singer, La Fayette, Ala., $35,064; 6.6 mi. Washington-Elberton Rd., and one concrete bridge, Federal Aid Project 314, Wilkes Co., to Nichols Constr. Co., Trust Co., Georgia Bldg., Atlanta, $35,945; 10.58 mi. Washington-Lincolnton Rd., and one concrete bridge, Federal Aid Project 315, Wilkes Co., to Oglesby & Stark, Elberton, $71,468; clay gravel 6.848 mi. Odel-Valdosta Rd., Federal Aid Project 279, to L. H. Smith, Elberton, $77,676.

Fla., Bronson—Constructing 18 mi. clay road from here to Cedar Keys, to J. A. Byrd, Lake Wales, $100,000.

Fla., Tampa — Hillsborough Co., paving 4.78 mi. Seffner-Thonotossa Rd., 15,000 cu.yd. excav., 50,466 lin.ft. concrete curbing, 25,233 sq.yd. asphalt block, 3 in. thick, also 27 mi. Tuskin (Bayshore) Rd., 295,874 lin.ft. concrete curbing, 150,000 cu.yd. excav., 246,561 sq.yd. asphalt block, to Warren & Carroll, Tampa, (street address not available) $74,456 and $647,859 respectively; 2.02 mi. Waters Ave., 21,302 lin.ft. cement curbing, 6,000 cu.yd. excav., 17,752 sq.yd. asphalt block, also 6.75 mi. Temple Terrace, 20,000 cu.yd. excav., 69,300 lin.ft. concrete curbing, 57,750 sq.yd. asphalt block, to Bruen & Sullivan, Tampa, (street address not available) $45,157 and $146,981 respectively; 14.25 mi. Interbay Rd., 40,000 cu.yd. excav., 165,630 lin.ft. concrete curbing, 129,627 sq.yd. asphalt block, also 3.56 mi. Armenia Ave., 8,000 cu.yd. excav., 37,600 lin.ft. concrete curbing, 31,333 sq.yd. asphalt block, to Cone Bros., Tampa (street address not available) $331,467 and $79,823 respectively; 3.1 mi. Wimanuma and Tampa Bay Blvd., 24,850 lin.ft. concrete curbing, 12,440 sq.yd. asphalt block, to Warren & Carroll, Tampa, (street address not available) $37,007 and Cone Bros., Tampa, (street address not available) $8,392; 11.16 mi. Lithia Rd., 58,907 sq.yd. sheet asphalt, also 17.11 mi. Plant City—Picnic Rd., 70,000 cu.yd. excav., 150,535 sq.yd. sheet asphalt, to McDonald Constr. Co., Orlando, $144,762 and $245,824 respectively; 6.65 mi. Midway Rd., 25,000 cu.yd. excav., 35,113 sq.yd. sheet asphalt, 10.9 mi. Plant City-Thonotosossa Rd., 33,000 cu.yd. excav., 57,580 sq.yd. sheet asphalt, also 6 mi. Lake Magdalene Rd., 53,332 sq.yd. sheet asphalt, to J. G. Yeates, Tampa, (street address not available) $88,846, $135,029 and $72,795 respectively; paving 15.13 mi. Citrus Park Rd., 133,176 sq.yd. asphaltic concrete, also 14.74 mi. Hopewell-Tampa Rd., 35,000 cu.yd. excav., 77,815 sq.yd. asphaltic concrete, to McDonald Constr. Co., Orlando, $263,516 and $260,398 respectively. Noted Nov. 30.

Ala., Birmingham—Grading and paving 1½ mi. Pratt City-Birmingham Rd., 30,000 sq.yd. asphalt on concrete, to Southern Roads Co., Amer. Trust Bldg., $81,306. Noted July 13.

Indiana—State Hy. Dept., Indianapolis, concrete paving 12 mi. Range Line Rd., Hamilton Co., to Miller & Miller, Elkhart, $238,394; 10.5 mi. Michigan Rd., St. Joseph Co., to G. M. Gross Constr. Co., Laporte, $189,264; 11.5 mi. Lafayette Pike, Clinton Co., to G. T. Miller, Lebanon, $218,011; 9 mi. French Lick Rd., Orange Co., to Foulkes Contg. Co., 705 Ohio St., Terre Haute, $239,986; grading 11.5 mi. French Lick Rd., Orange Co., to McBride & Neibert, Columbus, $26,195; grading and culverts, 6.5 mi. French Lick Rd., Orange Co., to E. Traylor, 220 Campbell St., Evansville, $41,529. All foregoing 16 ft. wide.

Michigan—State Hy. Dept., Lansing, grading and surfacing 5.08 mi. State Trunk Line Rd. 48-8, Machinac Co., to S. J. Groves & Sons Co., 120 Manhattan Bldg., Duluth, Minn., incl. 35 acres clearing $90, 25,387 cu.yd. excav. $0.50, 54.2 cu.yd. 1:3:6 concrete $25, 94.6 cu.yd. 1:3:6 concrete $23, 47,672 sq.yd. waterbound macadam $1.05, total $77,631. Noted Nov. 30.

Ia., Dubuque — Dubuque Co., grading 18.239 mi. primary road from southeast of Rickardsville to Clayton Co. line, to S. J. Groves & Sons Co., 306 Globe Bldg., Minneapolis, Minn., 164,575 cu.yd. earth excav. $0.29 per cu.yd., 45,125 cu.yd. $0.28, 9,673 cu.yd. solid rock $1.40 per cu.yd., 16,756 cu.yd. loose rock $0.75, 48,720 cu.yd. $0.74; A. Nelson, Dubuque, 59,050 ft. 6 in. tile $0.133 per ft., 23,043 ft. 6 in. $0.138, 4,025 ft. 8 in. $0.186, 1,495 ft. 8 in.; $0.196 and 1,090 ft. 10 in. $0.292. Noted Nov 30

Ia., Lisbon—Paving 21,000 yd. various streets, brick with asphalt filler, 10,750 ft. curb and gutter, to Hahn Constr. Co., 1109 12th Ave., Cedar Rapids, $87,000. Noted Nov. 30.

Ia., Rock Rapids—Lyon Co. gravel surfacing 12.53 mi. Primary Rd. from South Dakota State Line east through Larchwood and Lester, to Sheehan-Berjkness, Sioux Falls, S. D., 3,120 cu.yd. gravel 1 mi. haul $0.34 per cu.yd., 109,000 units gravel ½ mi. haul $0.095, 9,839 cu.yd. gravel 1 mi. haul $0.31, 6,589 cu.yd. gravel $0.33, 76,600 units gravel ½ mi haul $0.09, 9,838 cu.yd. gravel screening $0.06, 700 cu.yd. gravel screening $0.20, 1,100 cu.yd. excav. $0.20, 4,000 cu.yd. excav., $0.19

Minnesota — State Hy. Dept., St. Paul, State Project 22-21, Sibley and Nicollet Counties, 22,000 cu.yd. gravel surfacing, to Connelly Contg. Co., Rice St. and Merriam Ave., St. Paul, $49,900; 15 mi. State Project 30-21, Federal Aid Project 222, Otter Tail Co., 24,000 cu.yd. gravel surfacing, to Johnson Bros. & Hanson, Fergus Falls, $20,301; 14 mi. State Project 23-21, Federal Aid 234, Benton Co., 22,000 cu.yd. gravel surfacing, to Gatzenmeyer-Lenz Co., 5120 Upton Ave. S., Minneapolis, $21,690; 13 mi. State Project 65-21, Federal Aid Project 248, Clearwater Co., 20,000 cu.yd. gravel surfacing, to P. Mortenson, Hibbing, $21,844. Noted Nov. 16.

Minn., Albert Lea—Freeborn Co., 15 mi. State Project 13-02, Federal Aid Project 285, 210,000 cu.yd. excav., portable and monolithic culverts, grading to Thursdale & Mitchell, Zumbrota, $61,130, culverts to Northfield Iron Co., Northfield, $1,889; 1 mi. State Project 1-06, 21,600 cu.yd. excav., portable and monolithic culverts, grading to Thursdale & Mitchell, Zumbrota, $6,055, culverts to Mikelson Cement Co., Albert Lea, $1,283. Noted Nov. 9.

Minn., Detroit—Becker Co., Job 2205, State Aid Rd. 6, 48,000 cu.yd. excav., 712 lin.ft. 15-36 in. portable culverts, to H. M. Nelson, Chokio, $13,154; Job 2206, State Aid Rd. 1, 65,000 cu.yd. excav., 1,318 lin.ft. 12-18 in. portable culverts, to M. Egan, Detroit, $20,202.

Minn., Minneapolis—Will pave streets, various types, by day labor. $1,250,000. N. W. Elsberg, city engr.

Minn., Worthington—Nobles Co., 7 mi. Job 2210, State Rds. 1 and 10; 10 mi. Job 2301, State Rd. 2; 4.5 mi. Job 2302, State Rd. 9; 20 mi. Job 2303, State Rd. 6, Sects. A and B; 1.5 mi. Job 2207, Sect. B, to G. W. Humphrey, Aberdeen, S. D., $38,000.

Kan., Leavenworth—For 16,000 brick pavement on concrete, to Geiger Constr. Co., Leavenworth, $2.80 per yd.

South Dakota—State Hy. Comn., Pierre, grading, etc., 4.64 mi Federal Aid Project 123, from Belle Fourche to Redwater Creek, Butte Co., grading to E. Parrish, Rapid City, $40,083; concrete work to Concrete Eng. Co., Rapid City. Noted Nov. 2.

Wyoming—State Hy. Comn., Cheyenne, grading and building structures on 7.8 mi. Yellowstone Highway from Bonneville north, Fremont Co., 24 ft., to Wickham Bros. & Sweiger, Lovell, $105,907. Engrs. est. $104,000.

Mo., Maplewood—G. Komar, city clk., City Hall and St. Louis Co. (Clayton) reconstructing 3,100 ft. Greenwood Blvd. from Big Bend Rd. to Canterbury Ave., 30 ft., concrete, to C. M. Berry, Empire Bldg., Webster Groves, $33,997. Engrs. est. $40,000. Noted Dec. 14.

Tex., Beaumont—Jefferson Co. rock asphalt on concrete, 7.35 mi. Voth Rd., State Highway 40, 18 ft., and 15.53 mi. Nome Rd., State Highway 3, 18 ft., to Smith Bros., Crockett, $273,033 and $633,008 respectively. Noted Nov. 30.

Tex., Kerens—Paving Sloss Ave., 11,000 sq.yd. brick, 2,400 lin.ft. curb and gutter, to Panhandle Constr. Co., Lubbock, $45,000.

Tex., Laredo — Webb Co. grading and gravel surfacing, etc., 25.1 mi. Laredo, Mirando City and Torrecillas Rd., 16 ft., 2,052 cu.yd. earth excav., 2,250 cu.yd. concrete, 54,890 cu.yd. gravel surfacing, 191,000 lb. reinforcing, etc., to Peterman, Robinson & Neyland, Laredo, $150,000.

Tex., Sinton—San Patricio Co. surfacing with 1 in. limestone rock asphalt 15.06 mi. Highway 9, 16 ft., (road already graded and surfaced with shell and gravel) incl. 141,332 sq.yd. bituminous macadam, 1,995 cu.yd. limestone screenings, to Uvalde Rock Asphalt Co., 1111-14 City Natl. Bank Bldg., San Antonio, $117,687. Engrs. est. $129,455.

Okla., Tulsa—Tulsa Co concrete paving Tulsa-Sapula Rd., 2½ mi., 27 ft. wide, and 1 mi., 18 ft. wide, to Standard Paving Co., 1742 East 6th St., $127,150. Noted Oct. 19.

Calif., Calipatria — Grading, concrete curbing and concrete paving West Main St., to F. Beal, Brawley, 21,000 sq.ft. 6 in. concrete pavement $0.368 per sq.ft., grading $0.856 per lin.ft., etc., total $76,265.

Calif., San Anselmo—Improving streets in Barber Tract, to Heafey, Moore & McNair, 2030 High St., Oakland, $28,923. Noted Dec. 7.

Calif., San Diego—Common Council paving Adams and Works Aves., Utah and 30th Sts., to Fairchild-Gilmore-Wilton Co., 25 14th St., $82,259. Noted Dec. 14.

Calif., Santa Rosa—Paving with 1½ in. warrenite bitulithic on 4 in. asphaltic concrete, 83,000 sq.ft. College Ave. and 41,337 sq.ft. Slater St., to Warren Constr. Co., Bacon Bldg., Oakland, $18,924 and $9,915 respectively. Noted Nov. 9.

Industrial Works

PROPOSED WORK

Mass., Gardner—Nichols Rattan Products Co., Main St., plans 2 story, 90 x 140 ft. factory, rein.-con. and brick, Main St. $75,000. Private plans.

Mass., Lynn — See "Buildings" under Contracts Awarded.

Mass., South Boston (Boston P. O.)—Gillette Safety Razor Co., 41 West 1st St., plans brick and rein.-con. factory, probably 8 story. Architect not announced.

R. I., Providence—City Real Estate Co., 4 Weybosset St., plans 2 story garage and service station, brick, Bway. and Westminster St. $50,000. Private plans.

R. I., Providence—E. A. Smith Realty Corp., Weybosset St., plans 3 story garage and service station, brick and concrete, plain foundation, Chapel St. $100,000. Architect not announced.

N. Y., Brooklyn—Brooklyn Edison Co., 360 Pearl St., soon takes bids new power plant, 400,000 k.w. capacity. Marshall St. $800,000. T. E. Murray, Inc., 55 Duane St., New York, archts. G. L. Knight, 360 Pearl St., engr. Noted Aug. 24.

N. Y., Buffalo—Sinclair Oil Co., Washington St., plans to rebuild major portion of main gasoline and oil plant, Alabama St., recently destroyed by fire. $100,000. Architect not announced.

N. Y., New York—R. Jacobs, c/o R. H. Almirety, archt. and engr., 48 West 46th St., soon takes bids 2 story, 100 x 100 ft., brick, steel and concrete garage, plain foundation, 37 West 65th St. $50,000.

N. Y., Rochester—Empire Ice Co., 76 West Monroe St., Chicago, had plans prepared 48 x 182 ft. refrigeration plant, 22 ft. high, and 67 x 133 ft. storage plant, 22 ft. high, Atlantic Ave., here. $300,000.

N. Y., Syracuse—Mills, Rhines, Bellman & Nordhoff, archts., 1234 Ohio Bldg., Toledo, O., takes bids about Dec. 26, 2 story, 100 x 250 ft., rein.-con., brick and steel plant, Plum St., here, for New Process Gear Co., 500 Plum St. $150,000.

Pa., Blossburg—Blossburg Electric Light & Power Co. plans new light and power plant, here. $1,000,000.

Pa., Lancaster—Berkshire Electric Co., Lancaster, plans $59,000 bond issue for improving and extending plant and lines.

Pa., Scranton — Susquehanna Light & Power Co., plans $100,000 bond issue, to improve and extend system and lines.

Pa., Warren—Crew—Levick Co., plans to rebuild plant recently destroyed by fire. $40,000. Architect not announced.

Md., Hagerstown—Plans $300,000 bond issue for new electric light plant. A. Bowman, mayor.

N. C., Brickhaven (Corinth P. O.)—Carolina Power & Light Co., Raleigh, (street address not available) plans constructing and equipping 15,000 kw. (ultimately 60,000 kw.) steam plant on Cape Fear River, near here. P. A. Tillery, mgr.

N. C., Charlotte — H. M. Wade, South Graham Ext., having plans prepared by Lockwood, Greene & Co., archts., Piedmont Bldg., 4 story, 120 x 150 ft., brick factory. $150,000.

Ky., Louisville—J. F. Furfees Paint Co., 201 East Market St., 5 story, 61 x 204 ft., addition to plant, Floyd and Market Sts. $200,000. Architect not named.

Ky., Louisville—Louisville Garage Co. having plans prepared by Murphy & Bros., archts., Louisville Trust Bldg., 2 story, 150 x 200 ft., brick and steel, garage and

Industrial Works (Continued)

service station, 5th Ave. $225,000. Noted Dec. 14.

O., Cleveland—Peerless Paper Box Co., 3225 East 55th St., had plans prepared by P. Matzinger & Co., archts., Caxton Bldg., 1 story and basement, 59 x 140 ft., brick and steel factory and warehouse, 3221 East 56th St. $40,000.

O., Sandusky — Ajax Rubber Co., 220 West 57th St., New York City, plans 6 story plant, here. $1,000,000. S. M. Green Co., 293 Bridge St., Springfield, Mass., engrs.

O., Youngstown — Brier Hill Steel Co., Stambaugh Bldg., plans new strip steel mill. Architect not announced.

Ind., Cannelton—Cannelton Sewer Pipe Co. plans 4 story, 62 x 208 ft. clay plant, concrete and steel, 8 kilns, 120 ft. radial stack, new power plant, 1,000 ft. additional switching facilities. $240,000. Private plans.

Ind., Indianapolis — Indianapolis Glove Co., having plans prepared by Rubush & Hunter, archts., Amer. Central Life Bldg., 5 story and basement, 100 x 160 ft. factory, rein.-con. and brick, concrete pile foundation, Liberty St. $225,000.

Mich., Muskegon Heights (Muskegon P. O.)—Piston Ring Co., having plans prepared and takes bids about February, 1 story, 120 x 222 ft. rein.-con. and steel foundry. $75,000. Private plans.

Ill., Chicago — Advertising Art Bulletin Co., 190 North State St., plans 1 and 2 story, 163 x 239 ft. garage, rein.-con., brick and steel, Ravenswood Ave. near Peterson St. $100,000. A. H. Knox, 7 West Madison St., archt.

Wis., Green Bay — Press-Gazette, 315 Cherry St., plans 3 or 4 story brick, rein.-con. and steel plant, plain foundation. $100,000. Architect not selected.

Wis., Milwaukee—J. P. Bruecker, archt., 482 Frederick Ave., making plans 3 story, part basement, 100 x 142 ft., brick and timber warehouse, plain foundation, South Side. $45,000. Owner's name withheld.

Wis., Milwaukee—South Side Nash Co., 9th and Forest Home Aves., had plans prepared by Gurdon & Gurdon, archts., 2nd Ave. and Mitchell Sts., 1 story and basement, 72 x 93 ft., garage, plain foundation. $40,000.

Ia., Denison—G. W. Newton plans 2 story, 85 x 150 ft., brick and concrete garage, Main and Chestnut Sts. $40,000. Architect not announced.

Ia., Iowa City—Economy Advertising Co. plans 2 or 3 story and basement printing plant, brick and concrete. $75,000. B. W. Mercer, pres. Architect not selected.

Tex., Ammarillo—U. S. Zinc Corp. had plans prepared and takes bids first of year industrial housing and smelter building. $400,000. Private plans.

Tex., Dallas—Dallas Gas Co., Logan St., takes bids about January 1, 1 story, 60 x 150 ft. garage and workshop, concrete. $65,000. Private plans.

Tex., Houston—Houston Light & Power Co., 1905 Capitol St., making plans building and equipping 20,000 kw. power plant. $1,000,000. C. Bertram, mgr.

Idaho, Weippe — E. T. Chapin Co., Symons Bldg., Spokane, Wash., takes bids in spring for sawmill, here. $100,000.

Calif., Fresno — Herminghaus Estate, plans 1 story, 125 x 150 ft., garage, L St. between Merced and Tuolumne Sts. To exceed $40,000. Architect not selected. Waterman Bros., Tulare and L Sts., lessees.

Calif., Los Angeles—Sam Seelig Co., 1325 Palmetto St., having plans prepared by Milwaukee Bldg. Co., archts., Wright and Callendar Bldg., 5 story, rein.-con. warehouse, Vernon and Alameda Sts. $200,000.

Calif., Petaluma—Fuller & Peters, Main and Bridge Sts., plan 50 x 112 ft. garage, North Main St. Architect not selected.

Calif., San Francisco—G. Hackett, 247 Powell St., having plans prepared by O'Brien Bros., Inc., archts., 240 Montgomery St., 2 story and basement, rein.-con. garage and store building, Ellis St. near Taylor St. $50,000.

Calif., San Francisco—See "Buildings."

Ont., Hamilton—Ontario Shale Brick Co., Sun Life Bldg., plans plant. $100,000.

Ont., North Bay—J. Ferguson, mayor, and Town Council, Town Hall, plan hydro electric power plant on French River at Chaudiere Falls to relieve power shortage here and in surrounding towns, incl. 3 plants 30,000 hp. and 35 mi. transmission line. $3,000,000.

Ont., Sarnia—C. McPhee plans to rebuild garage recently destroyed by fire. $100,000.

Ont., Timmins — Hollinger Consolidated Gold Mines, Ltd., Timmins, plans hydro electric plant on Abitibi River at Island Portage, incl. concrete dam, power house, three 10,000 hp. turbine generators, transformers, cranes, pumps, etc., and 75-80 mi. high voltage transmission line from here to Island Portage. $3,000,000.

BIDS DESIRED

Pa., Pittsburgh—J. M. McCollum, archt., Berger Bldg., taking bids 3 story and basement, 23 x 50 ft. brick and limestone plant, 2nd Ave. and Grant St., for Smith Bros., Inc., 409 Grant St.

Pa., Pittsburgh — Natl. Metal Products Co., Erie and Diamond Sts., will build 1 story, 68 x 138 ft. factory, Chateau and Fayette Sts. $60,000. Work will be done by separate contracts. Private plans.

Pa., Reading—Biehl Auto & Wagon Wks., 31 South 5th St., taking bids 2 story, 85 x 200 ft. brick addition to factory, South 5th St. H. G. Mohn, Mohnton, archt.

Pa., Uniontown—H. Cochrane, c/o H. W. Altman, archt., Uniontown, taking bids 1 story, 90 x 120 ft. brick and steel garage, Baum Blvd. $85,000.

Pa., Wilkinsburg (Pittsburgh P. O.)—C. C. McKallip, Magee Bldg., taking bids 2 story, 50 x 90 ft. sales room and garage, concrete, brick and steel, Penn Ave. $50,000. Private plans.

O., Cleveland—E. Huberty, archt., 8017 Whitehorn Ave., taking bids 2, 3 and 4 story, 73 x 140 ft. bakery addition, brick, steel and concrete, 2701 Barber Ave., for J. Spang Baking Co., 2711 Barber Ave. $125,000.

Mich., River Rouge (Branch of Detroit)—A. Kahn, engr., 1000 Marquette Bldg., Detroit, taking bids and opens same about Dec. 29, 1 and 2 story, 150 x 300 ft. concrete and steel factory, here, for Ford Motor Co., Highland Park (branch of Detroit).

Ill., Chicago—R. F. France, archt., 155 North Clark St., receiving bids 1 story, 106 x 135 ft. garage, rein.-con., brick and steel, Juneway Terrace near Clark St., for F. J. Fadner, c/o architect. $125,000.

Ill., Peru—V. A. Matteson, archt., 8 South Dearborn St., Chicago, receiving bids 2 story and basement, (715,000 cu.ft.) factory, rein.-con., brick and steel, here, for Western Clock Co., Peru. $250,000.

Wis., West Allis—Gas Tank Recharging Co., 1245 23rd Ave., Milwaukee, taking bids 1 story, 41 x 81 ft. carbide storage building, 1 story, 20 x 29 ft. boiler house 1 story, 41 x 81 ft. purifying building, etc., 1 story 41 x 81 ft. shipping and storage building, 1 story, 41 x 100 ft. recharging building, brick, plain concrete foundations. O. C. Randolph, 53 West Jackson Blvd., Chicago, engrs.

BIDS RECEIVED

Mich., Detroit—Detroit Pub. Lighting Comn., 138 East Atwater St., opened bids 1 story, 20 ft. high, 56 x 83 ft. rein.-con., steel and stone substation, Woodward Ave., from Corrick Bros., Owen Bldg., $54,989; M. Bartholomael Sons & Co., 1574 East Warren Ave., $57,106; Brayton Eng. Co., 907 Kresge Bldg., $57,151. Noted Dec. 14.

Minn., Hibbing—Water, Light, Power and Bldg. Comn. opened bids Dec. 12, 1 story and basement, 66 x 85 ft. addition to gas plant, brick and concrete, from Phelps-Drake Co., Hibbing $89,948; G. Anderson, Hibbing, $96,732; Dohm Bldg. Co., Hibbing, $98,390.

CONTRACTS AWARDED

Mass., Everett — Sexton Can Co., 123 Broad St., Boston, 2 story, 50 x 130 ft. factory addition, brick and timber, plain foundation, also 2 story office addition, Cross St., here, to D. E. McIntire, Inc., 74 Broad St., Boston. Archts. est. $40,000.

Mass., Medford—Amer. Woolen Co., 245 State St., Boston, 5 story, 60 x 120 ft. factory addition, rein.-con., brick and steel, plain foundation, Boston Ave., to C. L. Patton, Melrose Highlands. Archts. est. $100,000.

Mass., South Hadley—Holyoke Gummed Products Co., 9 Suffolk St., Holyoke, 1 story, 140 x 147 ft. factory, brick and timber, plain foundation, here, to Austin Co., 217 Bway., New York City. Archts. est. $40,000.

Mass., Watertown—Vose & Sons Piano Co., 1010 Massachusetts Ave., Roxbury, 5 story, 80 x 220 ft. factory, rein.-con., steel and brick, plain foundation, School, Arsenal and North Beacon Sts., here, to J. J. Prindiville Co., Framingham. Archts. est. $300,000. Noted Oct. 19.

Mass., Worcester—Boulevard Park Associates, c/o J. F. Carberry, agt., 339 Main St., 1 story, 45 x 165 ft. garage and service station, brick and steel, plain foundation, Shrewsbury St., to Keefe Bros. [illegible] Front St. Archts. est. $40,000.

Pa., Allentown — Lehigh Valley [illegible]ster Co., 1 story, 60 x 125 ft. rein.-con[illegible] and steel plant, Jerome Ave., to [illegible] Black, Allentown.

Pa., Bethlehem—Kurtz Furniture Co., reconstruction eight 1 story, factory buildings, Ave. B, to R. S. Rathbun Contr. Co., Bethlehem. Archts. est. $750,000. Noted Nov. 23.

Pa., Leechburg—West Leechburg Steel Co., Farmers Bank Bldg., Pittsburgh, 1 story, 120 x 700 ft. rein.-con., steel and corrugated iron addition to mill, to Treadwell Eng. Co., Easton. Archts. est. $1,500,000.

Pa., Phila.—Abbotts Dairy Co., 31st and Chestnut Sts. 3 story, 120 x 140 ft. rein.-con. and brick garage, plain foundation, 3rd and Lombard Sts., to Turner Constr. Co., 1713 Sanson St. Noted Dec. 14.

Pa., Phila. — Schlorer Delicatessen Co., Water and Mifflin Sts., 4 story and basement, 60 x 80 ft. brick and steel factory, plain foundation, to Cramp & Co., Denckla Bldg., $200,000. Noted Dec. 14.

W. Va., Warwood (Wheeling P. O.)—Centre Fdry. and Machine Co., 1 story, 100 x 320 ft., foundry and machine shop, to Riverside Bridge Co., Martins Ferry, O. To exceed $60,000.

O., Cleveland—J. L. Free Co., 1040 Prospect Ave., 1 story, 90 x 135 ft., brick and steel garage and salesroom, plain foundation, 3746 Prospect Ave., to Austin Co., 16112 Euclid Ave. Archts. est. $50,000. Noted June 8.

O., Cleveland—Natl. Screw & Tack Co., 2440 East 75th St., 550 ton steel for 5 story, 56 x 165 ft., factory, Platt Ave., to Riverside Bridge Co., Martins Ferry. Total cost $250,000. Owner will do masonry and carpentry work. Noted Nov. 2.

O., Dayton—Dayton Power & Light Co., South Jefferson St., 4 story, 150 x 182 ft., rein.-con. and brick service building, Monument St., to U. S. Structural Co., Hartford St., $300,000.

O., Norwood—Ford Motor Co., Highland Park, Mich., general contract rein.-con., brick and steel assembling plant, and rein.-con. loading platform, here, to W. E. Wood & Co., 1805 Ford Bldg., Detroit.

Mich., River Rouge (Branch of Detroit)—Ford Motor Co., Highland Park (Branch of Detroit), 260 x 365 ft. concrete, brick and steel plant, plain foundation, to E. Winters, 752 Book Bldg., Detroit. Archts. est. $1,500,000.

Ill., Chicago—Evans Fibre Box Co., 3261 West 47th St., 1 and 2 story, 101 x 483 ft. factory, rein.-con., brick and steel, 4734-60 South Spalding Ave., to Robson Co., 38 South Dearborn St. Archts. est. $150,000.

Wis., Cedarburg—Hansen Canning Machine Corp., Port Washington, 1 story, 112 x 112 ft., concrete and steel factory, plain foundation, here, to Natl. Constr. Co., 490 Virginia Sts., Milwaukee. Archts. est. $40,000. Noted Dec. 7.

Wis., Crandon—F. H. Himes Lumber Co. will build 1 story 40 x 40 ft. saw mill, 14 x 50 ft. warehouse, 50 x 120 ft. shed, timber, plain foundation, by day labor.

Wis., Madison—Madison Supply Co., 615 East Washington Ave., 2 story, 50 x 60 ft. bottling works incl. warehouse, rein.-con. and brick, plain foundation, to W. H. Deason, 337 Washington Bldg.

Wis., Milwaukee — Harley-Davidson Motor Co., 3732 Chestnut St., 1 story, 80 x 145 ft., brick and concrete foundry, plain foundation, to E. S. Steigerwald Co., 3603 Vliet St. Engrs. est. $45,000. Noted Nov. 23.

Wis., Milwaukee—Welch Investment Co., 105 Wells St., 2 story, 75 x 150 ft., brick and concrete garage addition, Grand Ave., to Bentley Bros., 221 Grand Ave. Archts. est. $50,000. Noted Nov. 30.

Wis., Wausau—Durant Motor Car Co., 208 Washington Ave., 2 story, 60 x 60 ft., brick, rein.-con. and steel garage, plain foundation, to W. Anderes, 313 North 3rd St. Archts. est. $40,000. Noted Nov. 23.

Ia., Clinton—Curtis Bros. & Co., general contract, 4 story, 96 x 162 ft., brick and concrete warehouse, to Miller & Ladehoff, 405 Wilson Bldg.

Ia., Dubuque—T. J. Mulgrew, Jones and Iowa Sts., brick and concrete superstructure for ice and cold storage plant, to James Gregory Contg. Co., 1120 Iowa St. Total cost about $75,000.

Minn., Northfield—St. Olafs College, 1 story, 71 x 88 ft. power house and heating plant, general contract to J. F. Kump, Northfield. Total cost $50,000. Noted Dec. 7.

Industrial Works (Continued)

Mo., Kansas City—Holbert & Perrin, 23rd and Grand Sts., 2 story and basement, 75 x 100 ft. garage, Armour Blvd. and Troost St., to Morley Constr. Co., c/o Schiedley Bldg., $42,000. Archts. est. $43,000.

Calif., San Francisco—Roth, Winter & Walsh, 1271 Mission St., 2 story, 91 x 120 ft. packing plant, rein.-con., Townsend St., to Barrett & Hilp, 918 Harrison St., cost plus percentage basis, will exceed $75,000. Noted Dec. 14.

Buildings

PROPOSED WORK

Mass., Lynn—High School—Bd. Educ. having plans prepared by G. A. Cornet, archt., Donaghue Bldg., 2 story, 220 x 225 ft., brick, concrete and steel. $400,000.

Conn., Hartford—Temple—Masonic Hall Assn., 51 Ann St., plans 4 story, brick, stone and steel, Farmington Ave. $600,000. F. I. Cooper Corp., 33 Cornhill, Boston, archts. Noted May 19, 1921.

N. Y., Brooklyn—School—Bd. Educ., 500 Park Ave., New York, soon takes bids P. S. 201, brick, steel and stone, plain foundation, 80th St. and 12th Ave., here. $500,000. C. B. J. Snyder, Flatbush Ave. extension and Concord St., archt. and engr.

N. Y., New York — Apartment—J. H. Springer, c/o C. B. Meyers, archt. and engr., 32 Union Sq., soon takes bids 6 story, 100 x 100 ft., brick, steel and stone, plain foundation, Haven Ave. $150,000.

N. Y., New York — Hospital — Manhattan Eye & Ear Hospital, 208 East 64th St., having preliminary plans prepared by York & Sawyer, archts. and engrs., 50 East 41st St., altering present building and constructing new brick, steel and stone addition, plain foundation. $300,000.

N. Y., New York—Hotel—M. N. Natanson, 522 5th Ave., plans 15 story, 100 x 150 ft., brick, steel and stone, plain foundation, Lexington Ave. and 46th St. $2,000,000. Architect not selected.

N. Y., Troy—Chapel, etc.—House of Good Shepherd, c/o F. J. Morgan, archt., Pioneer Bldg., preparing plans and takes bids in February or March, 1 story and basement, 60 x 120 ft., Peoples Ave. $350,000.

Pa., Llanerch — Church — St. Andrews Methodist Episcopal Church soon takes bids 1 story and basement, 100 x 125 ft. brick, steel and stone, plain foundation. $200,000. W. L. Blithe, 608 Chestnut St., Phila., archt.

D. C., Wash.—Apartment—Speiden & Speiden, archts., 1423 New York Ave., preparing plans for apartment. $400,000. Owner's name withheld.

D. C., Wash.—Apartment—F. R. White, archt., 1410 G St., N. W., preparing plans for apartment. $450,000. Owner's name withheld.

D. C., Wash.—School and Hall—The Misses Maret School, 1724 Connecticut Ave., having plans prepared by H. W. Peaslee, archt., 1504 H St., for school and assembly hall

Va., Charlottesville—Church—St. Pauls Episcopal Church having revised plans prepared by Ludlow & Peabody, engrs. and archts., 101 Park Ave., New York City, brick and limestone, plain foundation. $150,000. Noted Feb. 23.

Miss., Jackson—Hotel—Edwards Hotel, J. L. Ware, prop., takes bids about Feb. 1, 10 story, 132 x 140 ft., (300 room), brick and steel. $1,000,000. W. T. Nolen, 2707 Coliseum St., New Orleans, La, archt.

La., New Orleans—Campanile Executive Com. of Students Memorial Com. plans concrete and brick, 162 ft. high, at entrance to campus, State University, here. $150,000. R. D. Boyd, pres. State University. T. Link, state archt.

O., Akron—Office—United Cigar Stores Co., 44 West 18th St., New York City, soon takes bids 8 story, 50 x 100 ft., brick and steel, concrete pile foundation, Main and Market Sts., here. $800,000. Sommerfeld & Steckler, 31 Union Sq., New York City, archts. J. Gehres, 336 Akron Savings & Loan Co., engr. Noted July 27.

O., Akron—Store and Office—United Cigar Stores Co. of America, 44 West 18th St., New York City, having plans prepared by L. E. Denslow, archt., c/o owner, 8 story, brick, steel and concrete, Main St., here. $350,000.

O., Canton—Arcade—J. Piper, c/o Dime Savings Bank, 301 Tuscarawas St. E., is backing proposition to build 2 story, 66 x 200 ft., Tuscarawas St. E. and Walnut St. S.E. $175,000.

O., Cleveland—Apartment—W. Carver of Common Brick Manufacturers of America, Cleveland Discount Bldg., had plans prepared by Wright & Hohl, archts., 4614 Prospect Ave., 3 story, 21 suite, brick and timber, East 132nd St, and Moreland Circle. $175,000.

O., Cleveland—Apartments—Best Homes Co., c/o A. Pentland, 3313 Cedar Brook Rd., Cleveland Heights, had plans prepared by Wright & Hohl, archts., 4616 Prospect Ave., two 3 story, 21 suites, brick and timber, plain foundations, East 132nd St., here. $175,000 each.

O., Cleveland—Bank and Office—Atlas Savings & Loan Co., c/o J. F. Rybak, pres., 5454 Bway, having plans prepared by J. H. Graham & Co., archts., 8201 Cedar Ave., 5 story and basement, 37 x 100 ft., brick, steel and concrete, 5644 Bway. $200,000.

O., Cleveland—Schools—Bd. Educ., East 6th St. and Rockwell Ave., having plans prepared by W. R. McCornack, archt., East 6th St. and Rockwell Ave., John Hay School of Commerce, 3 story, 40 room, East 107th St. and Fairchild Ave., $1,500,000; also 3 story, 22 room elementary school, East 176th St. and Groveland Ave., $400,000, both brick, steel and concrete, plain foundations.

O., Cleveland Heights (Warrensville P. O.)—School—Bd. Educ., c/o W. G. Nesbit, clk., 1805 Lee Rd., having plans prepared by F. C. Warner, archt., Hippodrome Annex, Cleveland, 2 story and basement, 100 x 211 ft., brick, steel and concrete, Euclid Heights Blvd. $250,000.

Mich., Ann Arbor—Alumnae—Alumnae of University of Michigan, having plans prepared by York & Sawyer, archts., 50 East 41st St., New York City, brick, steel and stone, plain foundation. $1,000,000.

Mich., Pontiac—Temple—Masonic Temple Assn. had plans prepared by Vernor, Wilhelm & Molby, archts., 602 Book Bldg., Detroit, 3 story and basement, 86 x 207 ft. rein.-con., brick, steel and stone, plain foundation, Oakland and South Lafayette Aves. $350,000.

Ill., Chicago—Apartment—A. R. Gurinan, c/o Leichenko & Esser, archts., 38 South Dearborn St., soon lets contract 3 story and basement 140 x 200 ft. rein.-con., brick and steel, South Shore Dr. and 76th St. $350,000.

Ill., Chicago—Apartment—C. F. Henry, c/o R. P. France, archt., 155 North Clark St., having plans prepared 3 story and basement, 145 x 150 ft., rein.-con., brick and steel, Sunnyside Ave. and Malden St. $400,000.

Ill., Chicago—Hotel—S. M. Edison, c/o D. S. Klafter, archt., 64 West Randolph St., having plans prepared 10 story, 108 x 125 ft., rein.-con., brick and steel, Cornelia St. near Sheridan Rd. $1,250,000.

Ill., Chicago—Hotel—Schmidt, Garden & Martin, archts., 104 South Michigan Ave., preparing plans 375 x 465 ft., rein.-con., brick and steel, South Shore Dr. and 55th St. $5,000,000. Owner's name withheld.

Ill., Chicago — School, Convent and Church—Sacred Heart Congregation, 7021 South May St., having plans prepared by Comes, Perry & McMullen, archts., Renshaw Bldg., Pittsburgh, Pa., 5 story and basement, 50 x 140 ft., school, convent and church, 70th and South May Sts. $500,000.

Ill., Crystal Lake — Club — Sunset Valley Country Club, c/o W. G. Uffendell, archt., 39 South State St., Chicago, plans 2 story, rein.-con., brick and steel, here. $500,000.

Ill., East St. Louis—Office or Hotel—H. Redmond et. al., Collinsville Ave., having preliminary plans prepared by Riester & Rubach, archts., Murphy Bldg., 132 x 175 ft., probably 8 story, rein.-con., brick and steel, plain foundation; Collinsville Ave. $750,000.

Ill., Niles Center — Club — Devonshire Country Club, c/o L. D. Levit, pres., 127 North Dearborn St., Chicago, plans 1 and 2 story, rein.-con., brick and steel, Dempster and Church Sts., here. $300,000. A. L. Himelblau, 179 West Washington St., Chicago, archt.

Ill., Oak Park—Apartment—W. G. Kreig, J. T. and M. D. Hetherington, archts., 105 North Clark St., Chicago, preparing plans 3 story and basement, 107 x 120 ft., rein.-con., brick and steel, Washington and Lombard Sts., here. $160,000. Owner's name withheld.

Wis., Kenosha—Clinic—H. A. Robinson, 401 West Park Pl., had plans prepared 2 story and basement, 40 x 110 ft. and 30 x 60 ft., brick and concrete, plain foundation. $150,000. White & Co., Pub. Service Bldg., archts.

Wis., Milwaukee—Apartment—Rosman & Wierdsma, archts., 424 Jefferson St., makiny plans 3 story and basement, brick and concrete, plain foundation, Grand Ave. $150,000. Owner's name withheld.

Wis., Milwaukee—Mercantile—Hartman Furniture Co., 286 West Water St., plans 10 story and basement, 60 x 137 ft., brick and concrete, plain foundation, West Water St. $500,000. Architect not selected.

Wis., Milwaukee—Office—Tate Printing Co., 133 2nd St., having plans prepared by Rosman & Wierdsma, archts., 424 Jefferson St., 8 story and basement, 60 x 120 ft., rein.-con. and brick, plain foundation, Bway. $300,000.

Wis., Racine—Auditorium—Racine Memorial Assn., c/o M. E. Walker, Janes Blk., having plans prepared by H. Shaw, archt., 39 South State St., Chicago, 2 or 3 story, brick, concrete and stone, plain foundation. $300,000.

Wis., Racine—Hotel—New Racine Hotel Co., c/o C. Fowler, Badger Bldg., rejected bids 7 and 8 story, brick and concrete, plain foundation, Main St. $600,000. Will readvertise. W. E. Perry and Fungard & Knapp, 212 East Superior St., Chicago, archts. Noted Aug. 31.

Ia., Keokuk—Schools—Voted $575,000 bonds for 3 schools. Architect not selected.

Ia., Pella—Science and Administration—Central College takes bids about Feb. 1, 4 story and basement, 50 x 60 ft., with 3 story, 60 x 112 ft. wing, rein.-con., brick and stone, on campus, here. $175,000. J. VerHey, Pella, archt. Noted Dec. 14.

Ia., Van Meter—School—Bd. Educ. plans 2 story and basement, rein.-con., brick, tile and stone. $150,000. C. Dunn, secy. Architect not selected.

Minn., Ely—High School—Bd. Educ. plans 3 story and basement, rein.-con., brick and tile. $600,000. H. J. Lockhart, clk. Architect not announced.

Minn., Minneapolis — Temple — Zuhrah Temple Assn., c/o A. A. D. Rahn, archt., 616 Masonic Temple, having plans prepared by Bertrand & Chamberlin, archts., 616 Northwestern Bank Bldg., 3 to 4 story and basement, 206 x 237 x 257 ft., irregular shape, rein.-con., brick and tile, Hennepin Ave. and Erie St. $1,000,000.

Minn., St. Paul—Church, School and Rectory—Church of the Nativity having plans prepared by Damon, O'Meara & Hills, archts., 1123 Merchants Natl. Bank Bldg., 33 x 136 x 155 ft. church and school, 41 x 43 x 59 ft. rectory, brick and concrete, Stanford and Prior Aves. $150,000.

Minn., Winona College—State Bd. of Control, St. Paul, plans 3 or 4 story and basement, rein.-con., brick and tile, at State Teachers' College, here, to replace one destroyed by fire. $500,000. C. H. Johnston, 715 Capital Bank Bldg., St. Paul, archt.

Mo., St. Louis—Apartment—A. A. Wagner, 5628 Delmar Blvd., having plans prepared by J. P. Cravens, archt., Chemical Bldg., 7 story, 80 x 200 ft., rein.-con., brick and steel, plain foundation, Clara Ave. $500,000.

Mo., St. Louis—Club, Office, etc.—Town Club, Century Bldg., having plans prepared by Mauren, Russell & Crowell, archts., Chemical Bldg., 5 or more stories, 46 x 110 ft., rein.-con., brick and steel, plain foundation, Locust St. To exceed $175,000.

Mo., University City—Theatre and Apartment—University Co., c/o W. A. Hays, Central Natl. Bank Bldg., plans 5 story and basement, 110 x 143 ft., rein.-con., brick and steel, plain foundation, Delmar Blvd. $400,000.

Tex., Dallas — Apartment — Efficiency Apartment Corp., Great Southwestern Life Bldg., having plans prepared and takes bids early in 1923, 11 story and basement, 100 x 150 ft., rein.-con. and brick, caisson foundation, Wolf and Maple Sts. $1,000,000. Private plans.

Tex., Dallas — Auditorium — City Comn. approved $1,000,000 bond issue for auditorium; election early in 1923. G. Fairtrace, city engr.

Tex., Dallas—Church—East Dallas Christian Church, c/o L. N. D. Wells, pastor, plans 2 story, church, Junius and Peak Sts. $150,000. Architect not selected.

Tex., Dallas—Church—First Methodist Church plans church on Ross and Harwood Sts. $750,000. H. D. Knickerbocker, pastor.

Tex., Denton—Church—First Methodist Church plans church. $150,000. Architect not selected.

Tex., Ft. Worth—Church—Magnolia Ave. Christian Church, 950 West Magnolia Ave., plans church. $300,000. Architect not selected.

Tex., Ft. Worth—Y. M. C. A. plans 4 story and basement, 100 x 150 ft., rein.-con., steel and brick, plain foundation, 5th and Lamar Sts. $325,000. Architect not selected.

Tex., Groesbeck—Court House—Limestone Co. plans rein.-con. and brick, plain foundation, Ellis St. $500,000. Architect not selected.

Tex., Houston—Apartment—J. Jones, Goggan Bldg., having preliminary plans prepared 12 story, 150 x 200 ft. $1,500,000. Architect not selected.

Buildings (Continued)

Tex., Houston—Board of Trade—Houston Cotton Exch. (street address not available), having plans prepared by Sanguinet, Staats & Gottlieb, archts. and engrs., Carter Bldg., 16 story, steel, caisson foundation, Prairie and Caroline Sts. $1,000,000.

Tex., San Antonio—Club—B. P. O. E. plans club, probably 8 story, Pecan and Navarro Sts. $350,000. Engineer and architect not selected.

Calif., Alameda—Apartment—L. Kolisky, Strand Theatre, soon takes bids 3 story, frame, stucco, and brick veneer, Grand St. and Central Ave. $150,000. A. A. Cantin, 68 Post St., San Francisco, archt.

Calif., Berkeley—Dormitory—University of California having plans prepared by J. G. Howard, archt., 1st Natl. Bank Bldg., San Francisco, first unit women's dormitory buildings. $328,000.

Calif., Fresno—Lodge, etc.—Fraternal Order of Eagles, Aerie No. 39, plan 6 story, lodge, club and office building, M and Fresno Sts. $500,000. Building association being organized to finance construction. M. P. Hall, 921 Terrace St., treas.

Calif., Fresno—Theatre—Fresno Junior Dramatic Club, plans theatre. $150,000. W. B. Slater, pres. Architect not selected.

Calif., Irvington—High School—Washington Union High School Dist., to vote on $150,000 bonds, Jan. 20, to construct high school.

Calif., Los Angeles—Mercantile—Cooper Dry Goods Co., c/o Curlett & Beelman, archts., Union Bank Bldg., having plans prepared 10 story and basement, 150 x 200 ft., Los Angeles and 9th Sts. To exceed $500,000.

Calif., Los Angeles—Office—A. C. Blumenthal, et. al., Loew State Bldg., receiving competitive sketches from several architects two 12 story, office buildings, Mercantile Pl. $2,000,000. S. Schnaittacher, 233 Post St., San Francisco, retained as professional advisor.

Calif., Pasadena—Church—First Baptist Church having plans prepared by C. M. Winslow, archt., Van Nuys Bldg., Los Angeles, church, Union St. $500,000.

Calif., Sacramento—Lodge and Club—Knights of Columbus, 1214 K St., plan lodge and club. $200,000. Architect not selected.

Calif., Sacramento—Market—L. Glide, c/o J. Morgan, archt., Merchants Exch. Bldg., San Francisco, having plans prepared 2 story and basement, 160 x 170 ft., 13th and J Sts. $200,000.

Calif., San Francisco—Amusement and Store—H. Shermund, archt., Hearst Bldg., prepared plans 6 story, rein.-con., Turk and Taylor Sts. $200,000. Owner's name withheld.

Calif., San Francisco—Apartment—D. J. Clancy, 2884 Folsom St., had plans prepared by Baumann & Jose, archts., 251 Kearny St., 6 story and basement, 57 x 75 ft., concrete, southeast Turk and Polk Sts. $150,000.

Calif., San Francisco—Office—Medical Center Corp., c/o G. S. Millberry, secy., 1041 Clayton St., plans 10 story and basement, 137 x 137 ft., office with garage for 150 cars, etc., Mason and Post Sts. $1,250,000. Architect not selected.

Calif., San Francisco—School—City and San Francisco Co. having plans prepared by J. Reid, Jr., archt., 1st Natl. Bank Bldg., 16 classroom annex to Portola School, 10 classroom addition to North Beach Primary School, auditorium and annex to High School of Commerce, and new building for Mission High School, latter to cost $1,000,000.

Calif., San Jose—Lodge and Club—San Jose Council, Knights of Columbus, c/o J. J. Jones, Bank of Italy Bldg., plans 4 story, 69 x 137 ft., North 1st St. $160,000. Architect not selected.

Que., Montreal—College—St. Laurent College, (street address not available), having plans prepared and will take bids in January for 50 x 60 ft. addition to college. $375,000. Architect's name withheld.

Ont., London—Home—Trustees Victoria Hospital, Ottaway Ave., defeated $300,000 by-law for nurses' home.

Ont., Toronto—Hospital—Hospital for Incurables, Dunn Ave., plans 3 story and basement, concrete, brick and steel addition. $250,000. A. Kent, pres. Architect not selected.

Ont., Windsor—Business—M. McGregor, McGregor Blk., plans to rebuild business block recently destroyed by fire. Loss $200,000.

BIDS DESIRED

R. I., Providence—School—Jan. 2, by Bd. of Contract and Supply, 3½ story, 83 x 151 ft., brick and steel, plain foundation, Summit Ave. $300,000. Public Buildings Dept., City Hall, archts.

N. Y., Brooklyn—Apartment—Kelner & Kelner, c/o Springsteen & Goldhammer, archts. and engrs., 32 Union Sq., New York, 4 story, brick, steel and stone, plain foundation, Lincoln Pl. $250,000. Work will be done by separate contracts under supervision of architects.

N. Y., Brooklyn—Hotel—H. Kornblum, 26 Court St., 4 story and basement, 45 x 135 ft., brick, steel and stone, plain foundation, Joralemon and Clinton Sts. $350,000. Work will be done by separate contracts. Private plans.

N. Y., New York—Apartment—Benheim Constr. Co., c/o Schwartz & Gross, archts. and engrs., 347 5th Ave., 9 story, 65 x 85 ft., brick, steel and stone, plain foundation. 138 East 52nd St. $165,000. Work will be done by separate contracts under supervision of architects.

N. J., Camden—High School—Dec. 26, by C. S. Adams, archt., 2036 Spruce St., Phila., 3 story and basement, 240 x 285 ft. cut stone and brick, plain foundation, Park Blvd. and Empire St., here, for Bd. Educ., City Hall. $350,000. Noted Oct. 5.

N. J., Newark—Clubhouse—Jan. 6, by N. J. Convery, archt., 942 Broad St, Newark, and Warren & Wetmore, associated archts, 16 East 47th St., New York City, 12 story, 100 x 150 ft., brick, steel and stone, plain foundation, Broad and Camp Sts., here, for B. P. O. E. No. 21, 27 Green St. $1,000,000. Noted Oct. 12.

Pa., Merion—Academy—F. F. Durang, archt., 1220 Locust St., Phila., taking bids 3 story and basement, 65 x 162 ft. brick, steel and stone, plain foundation, for Sisters of Mercy, Merion. $200,000.

Pa., Phila.—Hotel—H. Trumbauer, archt., Land Title Bldg., taking bids 16 story, basement and sub basement, 194 x 230 ft. brick, steel and stone, caisson foundation, 9th and Chestnut Sts., for Benjamin Franklin Hotel Co., c/o A. H. Mershon, Land Title Bldg. $1,500,000.

Del., Dover—School—Jan. 2, by Bd. Educ. c/o W. B. Thornburgh, 2 story and basement, 80 x 224 ft., stone and brick, plain foundation. $150,000. W. H. Thompson, 1211 Walnut St., Phila., archt.

Ga., Rome—School—Jan. 2, by M. A. Cooper, chn. building com., 2 story and basement, 45 x 258 ft., rein.-con. Spiker & Lose, Forsyth Bldg., Atlanta, engrs. Pringle & Smith, Atlanta Trust Bldg., Atlanta, archts.

O., Farmersville—School—Jan. 3, by J. R. Heiney, clk. Bd. Educ., 3 story and basement, brick and rein.-con., concrete foundation. $175,000. Walker & Norwich, 1301 Amer. Bldg., Dayton, archts.

Ill., Chicago—Hotel—A. S. Hecht, archt., 155 North Clark St., receiving bids 7 story, 53 x 108 ft., rein.-con., brick and steel. Buena Park and Hazel St., for Buena Park Hotel Corp., c/o architect. $380,000.

Ill., Chicago—Hotel—Feb. 1 by Holabird & Roche, archts., 104 South Michigan Ave., Hotel Stevens, 25 story, 173 x 402 ft., rein.-con., brick and steel, Michigan Blvd. between 7th and 8th Sts., for J. W. and E. J. Stevens, c/o La Salle Hotel. $15,000,000. Noted Oct. 19.

Ill., Chicago—Office—Holabird & Roche, archts., 104 South Michigan Ave., receiving bids 5 story, 100 x 135 ft. addition, rein.-con., brick and steel, La Salle and Madison Sts., for L. J. McCormick, c/o architects. $500,000.

Ill., Evanston—Apartment—J. A. Ostrand, 5434 North Ashland Ave., receiving bids 3 story, 100 x 135 ft., rein.-con., brick and steel, Michigan Ave. and South Blvd. $150,000. C. W. Westerlind, 179 West Washington St., Chicago, archt.

Mich., Detroit—Mercantile—Dec. 26, by Smith, Hinchman & Grylls, archts., 800 Marquette Bldg., 10 story, basement and sub-basement, 150 ft. high, 36 x 100 ft., rein.-con., brick and steel, plain foundation, Woodward Ave., for J. L. Hudson Co., Woodward Ave. Noted July 20.

Mich., Detroit—School—Jan. 5, by Bd. Educ., 2 story and basement, 46 ft. high, 110 x 145 ft. rein.-con., brick and steel, plain foundation, Kirby Ave. $150,000. Malcomson, Higginbotham & Palmer, 405 Moffat Bldg., archts.

Mich., Grand Rapids—Junior High School—Jan. 10, by H. H. Turner, archt., 923 Michigan Trust Bldg., 2 and 3 story, 85 x 178 ft., rein.-con., brick, steel and terra cotta, Lee St., for Bd. Educ. $150,000. H. Morrill, business mgr.

Mich., Hancock—School—Dec. 28, (change of date) by Bd. Educ., 3 story and basement, 80 x 336 ft., concrete, brick and steel. $300,000. G. L. Lockhart, 1353 University Ave., St. Paul, Minn., archt. Noted Nov. 30.

Ia., Monticello—High and Grade School—Jan. 19, by School Bd., 3 story and basement, 102 x 215 ft., rein.-con., brick and stone. A. H. Koop, secy. Keffer & Jones, 204 Masonic Temple, Des Moines, archts. Noted Nov. 2.

Minn., Aitkin—Court House—Dec. [illegible], by H. C. Beecher, aud. Aitkin Co., 3 story and basement, rein.-con., brick and tile, $200,000. Toltz, King & Day, 1410 Pioneer Bldg., St. Paul, archts.

Mont., Butte—Hotel—Dec. 28, by New Finlen Hotel Co., Finlen Hotel, 9 story and basement rein.-con., brick, tile and stone, $700,000. Shanley & Baker, Great Falls, archts.

Tex., Dallas—Club—Jan. 15, by Lang & Witchell, archts. and engrs., 300 Amer. Exch. Natl. Bank Bldg., 12 story and basement, rein.-con., brick and steel, plain foundation, for Dallas Athletic Club. $1,250,000. Noted Dec. 14.

Tex., Lockhart—School—Dec. 28, by A. D. Mebane, pres. School Bd., 2 story, 120 x 206 ft., T shaped, rein.-con., tile and brick. C. H. Page & Bros., Austin Natl. Bank Bldg., Austin, archts.

BIDS RECEIVED

Mass., Boston—Police Station—Public Buildings Dept., City Hall, opened bids Dec. 12, 10 story, 65 x 90 ft., brick and steel, plain foundation, Mill and Sears Sts., from M. Seretto, 3 Tremont Row, $530,000; J. Bowen, 184 Dudley St., $543,000; J. Slotnick, 448 Bway., Chelsea, $548,084. Noted Dec. 7.

N. Y., Freeport—High School—Bd. Educ. opened bids Dec. 4, brick, steel and stone, plain foundation, Pine St., from Moody Constr. Co., 90 West St., New York, $575,131-$557,581, omitting 2 units; L. M. Neckerman, 103 Park Ave., New York, $575,950-$556,950 omitting 2 units; G. T. Kelley, 2 Hudson St., Yonkers, $588,000-$566,000 omitting 2 units. Noted Nov. 23.

N. J., Bordentown—High School—Fowler & Seaman, archts., Broad St. Bank Bldg., Trenton, opened bids Dec. 11, general contract for 2 story and basement, 92 x 121 ft., brick and steel, here, for Bd. Educ., from J. H. Morris & Co., 211 North Montgomery St., Trenton, $124,161; Wills, Bill & Co., 1708 Sansom St., Phila., $130,258; C. J. Smith Constr. Co., 202 Academy St., Trenton, $136,625. Noted Dec. 7.

D. C., Wash.—High Schools—Dist. Comrs., 509 Dist. Bldg., opened bids Dec. 12 for MacFarland and Langley Junior High Schools, from M. Serretto, Main Treasury Bldg., $592,000; G. E. Wyne, Home Life Bldg., $604,600; M. A. Long, 2016 West North Ave., Baltimore, Md., $679,149. Former bids rejected. Noted Nov. 30.

Calif., Lodi—School—Lodi Union High School Dist., (1) 2 story science building, 2 story auditorium and 1 story manual training building, (2) addition to swimming tank, (3) buildings and tank, from Gould & Johns, 119 South California St., Stockton, (1) $248,299, (2) $16,391, (3) $261,701; R. W. Moller, Call Bldg., San Francisco, (1) $248,552 (2) $11,890 (3) $260,442; Betz & Maubrey, Ochsner Bldg., Sacramento, (1) $255,929 (2) $14,881 (3) $269,827. Noted Nov. 23.

Calif., San Jose—School—St. Patrick's Church, 2 story, rein.-con. and brick, East Santa Clara and 9th Sts., from J. L. McLaughlin, 251 Kearny St., San Francisco, $150,000.

CONTRACTS AWARDED

Mass., Boston—Apartment and Store—Owner, c/o D. Somes, archt., 119 Water St., four 2 story and basement, 40 x 100 ft., brick and steel, plain foundations, Charles and River Sts., to Joslin & Landry, 107 Massachusetts Ave. Archts. est. $340,000.

Mass., Lynn—Hotel—Lynn Shore, Inc., c/o Seibert & Young, archts., 177 State St., Boston, 6 story, brick, stone and concrete, Lynn Shore Blvd., to Boyle-Robertson Constr. Co., Evans Bldg., Wash., D. C., $1,850,000. Archts. est. $2,000,000. Having plans prepared for garage in connection with above.

Mass., Roxbury (Boston P. O.)—Synagogue—Temple Mishkan Tefila, c/o Krokyn, Brown & Rosenstein, archts., 7 State St., Boston, 3 story, brick, concrete and steel, plain foundation, Seaver St., to B. W. Marcus, Dean Rd., Brookline (Boston P. O.). Archts. est. $350,000. Noted Oct. 12.

Mass., Springfield—Hotel—Hampden Hotel Co., 140 Chestnut St., 10 story, 40 x 51 ft., brick and steel addition, plain foundation, Chestnut St., to E. F. Carlson Co., 244 Main St. Archts. est. $150,000. Noted Nov. 9.

Mass., Springfield—Store and Office—F. L. Dunlap, 293 Bridge St., superstructure for 2 story, 112 x 130 ft., cast stone and steel, Chestnut St., to L. S. Wood, 14 Stockbridge St. $200,000.

Buildings (Continued)

Mass., Worcester—Chapel—Holy Cross College, College St., 1 story and basement, 49 x 100 ft., brick, stone and steel, plain foundation, on Campus, to J. P. Keating, 80 Boylston St., Boston. Archts. est. $300,000.

Conn., Stamford — Apartment — Harris Constr. Co., 352 Atlantic St., has been awarded contract for 5 story and basement, brick, stone, steel and concrete, plain foundation, Rippowam Pl. and South St. Archts. est. $1,000,000. Owner's name withheld.

N. Y., Brooklyn—Apartment—J. Horowitz, c/o McCarthey & Kelley, archts. and engrs., 159 Remsen St., 6 story, 80 x 100 ft., brick, steel and stone, plain foundation, Prospect Park West, by day labor. $150,000.

N. Y., Brooklyn — Apartment — J. A. Mears, c/o Slee & Bryson, archts. and engrs., 154 Montague St., 6 story, 125 x 170 ft., brick, steel and stone, plain foundation, Union St., by day labor. $175,000.

N. Y., Brooklyn—Exchange—McKenzie, Voorhies & Gmelin, archts. and engrs., 342 Madison Ave., New York, brick, steel and stone, plain foundation, 7701 3rd Ave., here, to Gillies-Campbell Co., 101 Park Ave., New York, for New York Telephone Co., 15 Dey St., New York. Archts. est. $425,000. Noted Dec. 7.

N. Y., Flushing—Dormitories, etc.—C. B. J. Snyder, supt. School Buildings of Bd. Educ., Flatbush Ave. extension and Concord St., Brooklyn, dormitories, master's house, barns, etc., for Parental School on westerly side of road between here and Jamaica, about 1,700 ft. south of North Hempstead Turnpike, here, to T. A. Clark, Inc., 122 Livingston St., Brooklyn, $447,000. Noted Dec. 14.

N. Y., New York—Apartment—A. Herschkowsky, c/o C. Kreymborg, archt. and engr., 2534 Marion Ave., 5 story, 75 x 100 ft., brick, steel and stone, plain foundation, Crotona Parkway, by day labor. $150,000.

N. Y., New York—Apartment—Hudson Builders, c/o Springsteen & Goldhammer, archts. and engrs., 32 Union Sq., 5 story, 50 x 100 ft., brick, steel and stone, plain foundation, Wadsworth Ave., by day labor. $150,000.

N. Y., New York—Apartment—S. and J. Levy, c/o G. F. Pelham, 200 West 72nd St., 5 story, 105 x 165 ft., brick, steel and stone, plain foundation, St. Nicholas Ave. and 163rd St., by day labor. $170,000.

N. Y., New York—Apartment—M. B. Rich, c/o Springsteen & Goldhammer, archts. and engrs., 32 Union Sq., 5 story, 50 x 100 ft., brick, steel and stone, plain foundation, Bway. and 171st St., by day labor. $150,000.

N. Y., New York—Office—N. C. Partos, 1350 Bway., 20 story, brick, steel and stone addition, plain foundation, 35th St. and Bway., to Fleischman Constr. Co., 531 7th Ave. Archts. est. $1,500,000.

N. Y., White Plains—Store and Office—M. Marx, c/o Moore & Landseidel, archts. and engrs., 148th St. and 3rd Ave., 2 story, 100 x 150 ft., brick, steel and stone, plain foundation, by day labor. $300,000.

N. J., Ocean City—Hotel—Ocean Front Hotel, c/o J. H. Slocum, superstructure for 9 story and basement, 230 room, Beach front, to Roydhouse-Arey Co., 112 North Broad St., Phila., $500,000. Total cost $1,000,000.

Pa., Phila.—School—St. Callistus Roman Catholic Church, 67th and Landsdowne Aves., 3 story and basement, 62 x 142 ft., rein.-con., brick and steel, plain foundation, to Doyle & Co., 1517 Sanson St. $150,000. Noted Nov. 16.

W. Va., Harrisville — Court House — Comrs. Ritchie Co., superstructure for 3 story and basement, 96 x 98 ft., rein.-con., stone and steel, to Foreman & Putman, Marietta, O. Archts. est. $150,000. Noted Nov. 2.

O., Cleveland—Apartment—Superior-86th St. Co., c/o G. Scobell, Cook Bldg., 3 story and basement, 44 x 206 ft., brick and timber, plain foundation, 1316 East 86th St., to Craig-Curtiss Co., Cook Bldg., 4616 Prospect Ave. Archts. est. $250,000.

O., Cleveland—High School— Bd. Educ. East 6th St. and Rockwell Ave., 2 story, 40 room, brick, steel and concrete, plain foundation, West 46th St. and Hyde Ave., to J. F. Hohloch, Davis & Farley Bldg. Archts. est. $800,000. Noted Dec. 14.

O., Sandusky—Bank and Office—Commercial Bank & Trust Co., 3 story and basement, 37 x 119 ft., brick, steel and concrete, plain foundation, to Boldt Constr. Co., 5902 Euclid Ave., Cleveland. Archts. est. $150,000.

Ill., Chicago—Apartment — E. Carson, 5037 Dorchester Ave., 3 story and basement, 100 x 250 ft., rein.-con., brick and steel, 3918-26 Pine Grove Ave., to Olson & Carson, 5037 Dorchester Ave. Archts. est. $300,000.

Ill., Chicago—Apartment and Store—Schoenlank & Kirschner, 6570 Sheridan Rd., 4 story and basement, 80 x 155 ft., rein.-con., brick and steel, 4868-72 North Ashland Ave., to A. E. Johnson, 5356 Belle Plaine Ave. Archts. est. $150,000.

Ill., Chicago—Bank, Store and Office—Central Park State Bank, c/o Loewenberg & Loewenberg, archts., 111 West Monroe St., 2 story, 100 x 124 ft., rein.-con., brick and steel, Roosevelt Rd. and Central Park, to Douglas Constr. Co., 3140 West 15th St. Noted Oct. 26.

Ill., Chicago—Office—J. Hunt, archt., 30 North Michigan Ave., 5 story, rein.-con., brick and steel addition, at 30 North Michigan Ave., to J. B. French, 30 North Michigan Ave. Archts. est. $500,000. Owner's name withheld. Noted Dec. 8.

Ill., Evanston—Apartment—F. W. Freutel, c/o H. J. Liedberg, archt., 154 West Randolph St., Chicago, 3 story and basement, 96 x 150 ft., rein.-con., brick and steel, Forrest Ave. near Main St., here, to H. Janisch & Co., 1813 Winona St., Chicago. Archts. est. $150,000.

Ia., Corydon—High School—Bd. Educ. general contract, 2 story and basement, 67 x 121 ft., rein.-con., brick, tile and stone, to Hannon-Rogers Co., Newton, $81,896. Noted Nov. 23.

Mo., Kansas City—Hotel—Stats Hotel Co., c/o S. J. Stats, Plaza Hotel, general contract 10 story and basement, 50 x 142 ft., rein.-con., brick, stone and terra cotta, 12th and Wyandotte Sts., to Mosby-Goodrich Constr. Co., 902 New York Life Bldg., $290,000; plumbing work, to A. McKinley Plumbing & Heating Co., 1012 Troost St., $68,000.

Mo., St. Louis — Apartments — Wagner Constr. Co., 617 Chestnut St., will build thirteen 3 story and basement, 50 x 97 ft., rein.-con. and brick, plain foundations, Delmar Garden addition, $350,000, by day labor.

Mo., St. Louis—Club-Hotel—Bd. Directors City Club, 911 Locust St., 12 story, 60 x 122 ft., rein.-con., brick and steel, Locust St., to Humes-Deal Co., Century Bldg., fee basis. Archts. est $700,000. Noted Dec. 7.

Mo., St. Louis—Office—Planters Realty Co., 329 Pierce Bldg., converting 11 story hotel into office building, 4th St., to J. Stewart & Co., Inc., Ry. Exch. Bldg. Archts. est. $750,000.

Tex., Wichita Falls—High School and College—Wichita Falls Industrial School Dist., 2 story, rein.-con. and brick, plain foundation, to Kreipike & Schaffer, 615 Hersk St., Oklahoma City, Okla., $465,490. Noted Nov. 23.

Colo., Denver—School and Administration—City general contract 2 story and basement, 100 x 125 ft., 14th and Tremont Sts., to F. J. Kirchof Constr. Co., 718 Lawrence St., $143,520. Archts. est. $150,000.

Wash., Seattle—Institution—Order of St. Vincent, 5 story, 276 x 294 ft. Home for Aged and House of Providence, 35th St. S. W. and West Edmunds Sts., brick and rein.-con. to H. Pederson, Alaska Bldg., $1,000,000. Noted Nov. 23.

Calif., Santa Ana—Hall—Orange Co., constructing 1st unit of Hall of Records, general contract to Hudson Co., Marsh-Strong Bldg., Los Angeles; plumbing to S. Hill & Son, Santa Ana; electric wiring to Reid-Farley Co., Fullerton. Archts. est. $250,000.

Ont., Galt—Collegiate—Bd. Educ. general contract 3 story and basement, (20 room) rein.-con., brick and stone, concrete foundation, to G. H. Thomas, Galt. Archts. est. $300,000. Noted Sept. 7.

Federal Government Work

PROPOSED WORK

Va., Norfolk—Dredging—Spec. 4771—Bureau Yards & Docks, Navy Dept., Wash., D. C., plans dredging in harbor, here.

California, Roads—C. H. Sweetser, dist. engr., U. S. Bureau Pub. Rds., Dept. Agriculture, 881 Mills Bldg., San Francisco, takes bids in January, for 4 mi. road, 12 ft., Salmon River Project, Siskiyou Co., 130,000 cu.yd. excav. Noted May 4.

Calif., San Diego — Storehouse — Spec. 4770—Bureau Yards & Docks, Navy Dept., Wash., D. C., plans paint and oil storehouse at Destroyer Base, here.

Calif., San Diego—Water-Softening Machinery — Spec. 4768 — Bureau Yards & Docks, Navy Dept., Wash., D. C., plans to purchase water-softening machinery.

H. T., Pearl Harbor—Bins—Spec. 4772—Bureau Yards & Docks, Navy Dept., Wash., D. C., plans bins at coaling plant, here.

Cuba, Guantanamo—Distilling Apparatus, etc.—Spec. 4768—Bureau Yards & Docks, Navy Dept., Wash., N. C., plans distilling apparatus and heaters, here.

H. T., Pearl Harbor—Refrigerating Machinery — Spec. 4767 — Bureau Yards & Docks, Navy Dept., Wash., D. C., plans to purchase refrigerating machinery.

BIDS DESIRED

Mass., Boston—Remodeling—Jan. 12, by Treas. Dept., Wash., D. C., remodeling U. S. Post Office and Sub-Treasury, here. J. A. Wetmore, acting superv. archt; adv this issue.

N. Y., Elmira—Extension—Jan. 10 by Treas. Dept., Wash., D. C., for extension to building and driveway at U. S. Post Office and Court House, here. J. A. Wetmore, acting superv. archt.

D. C., Wash.—Fuel Oil—Jan. 9, at office of A. L. Flint, genl. purch. agt., Panama Canal, Wash., D. C., furnishing 200,000 bbl. fuel oil at Christobal or Balboa.

Fla., Key West—Metal Work—Jan. 15, by Supt. of Lighthouses, furnishing metal work complete for light towers; adv. this issue.

La., New Orleans—Furnishing and Placing Rock—Jan. 18, by Supt. of Lighthouses, (1) furnishing rock, (2) furnishing and placing, (3) loading, transporting and placing (rock furnished by Government) around Sand Island Light Station; adv. this issue.

Tenn., Nashville—Hull—Jan. 16, at office U. S. Engineer, steel hull for dipper dredge "Watauga"; adv. this issue. Noted Nov. 16.

Minn., St. Cloud—Extension—Jan. 9, by Treas. Dept., Wash., D. C., for extension to building and driveway at U. S. Post Office, here. J. A. Wetmore, acting superv. archt.

Tex., El Paso—Alterations—Jan. 3, by Treas. Dept., Wash., D. C., alterations in U. S. Post Office, here. J. A. Wetmore, acting superv. archt.

BIDS RECEIVED

Pa., Pittsburgh—Steel Hull—U. S. Engineer, Pittsburgh, for 1 steel dipper dredge hull, from Penn Bridge Co., Beaver Falls, $23,145; Midland Barge Co., Midland, $27,000; Amer. Bridge Co., Marine Dept., Frick Bldg., $29,750. Noted Nov. 9.

Ia., Knoxville—Hospital—Director U. S. Veterans Bureau, at office Quartermaster General, 2306 Munitions Bldg., Wash., D. C., opened bids Dec. 12 for Neuro-Psychiatric Hospital, here, complete incl. water, lighting, heating, systems, etc., from W. D. Lovell, 1415 8th St., S.E., Minneapolis, Minn., $859,400 (375 days); Warner Constr. Co., 730 Waveland Ave., Chicago, $889,974 (240 days); W. Kucharo & Co., 622 Hubbell Bldg., Des Moines, $928,800 (365 days). Noted Nov. 16.

CONTRACTS AWARDED

N. Y., Chelsea—Hospital—Treas. Dept., Wash., D. C., contract for additional work at U. S. Veterans Hospital here, to Northeastern Constr. Co., 101 Park Ave., New York, $217,120 total $636,394. Noted Oct. 26.

Pa., Altoona — Extension, etc — Treas. Dept., Wash., D. C., extension to building and driveway, and remodeling U. S. Court House and Post Office, here, to Garber & Cissell Co., Inc., Bethlehem, (street address not available) $17,418. Noted Nov. 16.

Okla., Shawnee — Post Office — Treas. Dept., Wash., D. C., for U. S. Post Office, complete incl. mechanical equipment, here, to A. M. Lundberg, 5564 Page Ave., St. Louis, Mo., $93,236 (14 months). Noted Nov. 23.

Miscellaneous

PROPOSED WORK

Coarse Aggregate—New York, N. Y.—J. Miller, pres. Manhattan Boro. Municipal Bldg., withdrew bids which were to be opened Dec. 8, furnishing and delivering 1,000 cu.yd. coarse aggregate for concrete. Will readvertise. Noted Nov. 30.

Transmission Line—Lancaster, Pa. — See "Industrial Works."

Brick—Tampa, Fla.—Hillsborough Co. rejected bids furnishing 10,000,000 bricks. A. Pimm, Tampa, engr. Noted Nov. 30.

Gas Mains—Fond du Lac, Wis. — See "Sewers."

Road Machinery—Wisconsin—Following are county appropriations for road machinery during 1923. Douglas Co. $15,000, C. Hanson, Superior, comr.; Burnett Co. $1,000, G. E. Miller, Webster, comr.; Door Co. $4,600, J. Laurie, Sturgeon Bay, comr.; Fond du Lac Co. $10,000, incl. 1 crusher and 2 trucks, G. Treleven, Fond du Lac, comr.; Dunn Co. $12,750, incl. patrol graders and equipment for county repair shop, F. Stewart, Menomonie comr.; Barron Co., screening plant, crusher and trucks, E. Gleason, Barron, comr.; Manitowoc Co. $24,000, incl. drag line, tractor and graders, J. Connell, Manitowoc, comr.; Vernon Co. $9,000, incl. 3 large graders and one large tractor, A. Ristow, Viroqua, comr.; Waupaca Co. $10,000, J. Huffcut, Waupaca, comr.; Bayfield Co. $10,000 incl. 10 patrol graders, J. Friberg, Washburn,

Miscellaneous (Continued)

comr.; Kenosha Co. $5,000, incl. steam shovel and 2 trucks, J. F. Herzog, Kenosha, comr.; Washington Co. $1,500, C. Johnson, West Bend, comr.; Waushara Co. $4,000 incl. wheel scrapers, graders and other small tools, F. Grimm, Wautoma, comr.; Clark Co. $5,000, incl. road graders, O. J. Weyhmiller, Neillsville, comr.; Iowa Co. $5,000, incl. one large tractor and possibly large truck, C. Wonn, Dodgeville, comr.; Marathon Co. $14,000, incl. patrol graders, 1 gravel crusher and screening plant, J. H. Vogt, Wausau, comr.; Racine Co. $12,000, incl. tar kettle, etc., W. A. Bechthold, Racine, comr.; Monroe Co. $10,000, incl. 12 patrol graders, 12 drags, one large grader, trucks, wheelers and slushers, C. Millard, Sparta, comr.; Kewaunee Co. $12,000, incl. portable crushing, screening and loading equipment, M. Shaw, Algoma, comr.; Columbia Co. $35,000, J. T. Henton, Portage, comr.; Trempealeau Co. will probably be in market for large grader and tractor and some gravel pit equipment, E. F. Rotering, Whitehall, comr.

Train Sheds—Wichita, Kan.—Wichita Terminal Assn., Exch. Bldg., plans railroad train sheds, steel, concrete foundation, at Union Station, East Douglas Ave. $100,000. R. R. Vermillion, 923 1st Natl. Bank Bldg., mgr. Engineer not selected.

Box and Coal Cars, etc.—St. Louis, Mo.—See "Railways" under "Missouri."

Levee—Texarkana, Ark.—Comrs. Impvt. Dist. 2 take bids early in January, 200,000 cu.yd. levee Red River at Buzzards Bluff. C. S. Christian, Texarkana, engr.

Lighting System—Vernonia, Ore.—Vernonia Electric Light & Power Co., has been granted franchise and plans lighting system for city. G. Burdick, pres. Engineer not selected.

Park and Civic Center—Redondo Beach, Calif.—Voted $125,000 bonds to purchase Redondo Hotel tract for park and civic center.

Subway—Sacramento, Calif.—City and Southern Pacific R.R., 65 Market St., San Francisco, plan subway under Southern Pacific tracks, at 16th and B Sts., here. $80,000. A. Givan, city engr.

Subways — Sacramento, Calif. — See "Streets and Roads."

Paving Plant—San Jose, Calif.—I. J. Ryder, surv. Santa Clara Co. preparing estimates for installing and operating plant to construct and repair bituminous roads. H. A. Pfister, clk.

Causeway—Yuba City, Calif.—Sutter Co. having plans prepared 2,000 ft. rein.-con. causeway on concrete piles. E. L. Cope, 58 Sutter St., San Francisco, engr.

Telegraph Lines — Ontario — See "Railways."

Transmission Line—North Bay, Ont.—See "Industrial Works."

Stadium—Toronto, Ont.—Toronto Harbor Comn., Harbor Com. Bldg., City Council, and Toronto Ball Club, plan athletic stadium, probably concrete. $300,000. E. L. Cousens, ch. engr., Harbor Comn.

Electric Lighting System—Wheatley, Ont.—Plans electric lighting and power distribution system. $35,000.

Gold Mine—Timmins, Ont.—Hollinger Consolidated Gold Mines, Ltd., plans to double capacity of mine here, to handle 4,500 tons more per day. Private plans. Will install crushers, drills, conveying equipment, stamp mills, amalgamators, etc.

Transmission Line, Cranes, Pumps, etc. —Timmins, Ont.—See "Industrial Works."

BIDS DESIRED

Cast Iron Water Pipe—Easthampton, Mass.—Town taking bids on quantity lots of 6 in. c.i water pipe. D. J. O'Neil, Town Hall, engr.

Motor Trucks—Long Island City, N. Y.—Dec. 29, by M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., furnishing and delivering twenty-one 3 to 3½ ton motor trucks.

Rails and Poles, etc.—Cape May, N. J.—Dec. 26, by City Comrs., purchasing 184 short ton street rail with fish plates, etc., 5 short ton frogs and switch rails (6 pieces); and 28 iron trolley poles. L. T. Stevens, city clk.; adv. this issue.

Bulkhead—Jersey City, N. J.—Jan. 15, by Hudson Co. Park Comn., 1 Exch. Pl., bulkhead, etc. at West Side Park; adv. this issue.

Coal Handling Equipment—Phila. Pa.—Dec. 29, by F. H. Caven, dir. pub. wks., City Hall, furnishing and installing coal handling equipment incl. locomotive crane, tractor, steel cars, track and shelter house, grading, etc. $75,000. C. E. Davis, City Hall, engr.

Crane—Phila., Pa.—Dec. 29, by Bureau of Water, 792 City Hall, 1 locomotive crane, 8 wheel steam operated with 46 ft. boom, 1 cu.yd. clamshell bucket, 5,800 bbl. capacity. C. Davis, engr.

Track Scale, etc. — Richmond, Va. — Hackley Morrison Co., Inc., 1708-22 Lewis St., taking bids for one 100 ton track scale standard gauge, and one ¾ yd. caterpillar tread steam shovel. G. W. Booth, purch. agt.

Structural Steel — New Orleans, La. — Jan. 11, by Bd. Port Comrs., Suite 200, New Court Bldg., furnishing, erecting and painting structural steel for Market St. Shed; adv. this issue.

Steel, etc.—Green Bay, Wis.—Green Bay Dock Co., Pearl and Arndt Sts., taking bids ship steel, (plates and shapes), fabricating steel, marine hardware, wire rope sheaves and steel casting. Private plans.

Piling—Milwaukee, Wis.—H. J. Esser, archt., 82 Wisconsin St., taking bids on concrete and wood piling for 8 story and basement 77 x 120 ft. and 58 x 177 ft. store building, brick and terra cotta, for Gimbel Bros., 5 Grand Ave. Total cost $800,000.

Tractor — Luverne, Minn. — Dec. 27, by Rock Co., one 10 ton caterpillar tractor; successful bidder to take 20 ton caterpillar Holt tractor in trade. O. Skyberg, co. aud.

Freight Engines, etc. — Omaha, Neb. — Union Pacific R.R., 15th and Dodge Sts., receiving bids 78 new freight engines and other equipment. $5,900,000. R. L. Huntley, ch. engr.

Bituminous Macadam, etc.—Clayton, Mo.—Dec. 27, by W. Elbring, engr. St. Louis Co., Court House, furnishing 2,792 squares bituminous macadam for Florissant Rd. from northern limits of Ferguson, Mo., to St. Francois St. in St. Ferdinand, Mo., thence along St. Francois St. to Ferdinand St., Ferdinand St. to Graham Rd., 3,200 squares for Bellefontaine Rd. from city limits of St. Louis to Larimore Rd., 2,432 squares for New Halls Ferry Rd. from Old Halls Ferry to Parker Rds., 2,205 squares for Old Halls Ferry Rd. from New Halls Ferry Rd. to Black Jack, and Parker Rd. from Old Halls Ferry Rd. eastward 1,000 ft.; furnishing 124,101 gal. refined tar or Bermudez asphalt for bituminous macadain pavement for Florissant Rd. from northern limits of Ferguson to St. Francois Sts. in St. Ferdinand thence along St. Francois to Ferdinand Sts., Ferdinand St. to Graham Rd., 128,000 gal. for Bellefontaine Rd. from city limits of St. Louis to Larimore Rd., 97,266 gal. for New Halls Ferry Rd. from Old Halls Ferry to Parker Rds., 88,200 gal. for Old Halls Ferry Rd., from New Halls Ferry Rd. to Black Jack and Parker Rds., 1,000 ft. eastward; 1,713 ton roofing gravel for Florissant Rd., St. Fracnois and Ferdinand Sts., 1,756 ton for Bellefontaine Rd., 1,342 ton for New Halls Ferry Rd., 1,217 ton for Old Halls Ferry and Parker Rds. Former bids rejected.

Steel Water Pipe, etc.—Terra Bella, Calif.—Jan. 2, by E. R. Clems, secy. Terra Bella Irrigation Dist., 1st Natl. Bank Bldg., furnishing riveted steel water pipe, f.o.b. Ultra on or before Feb. 1, as follows: 700 ft. 4 in., 6,700 ft. 6 in., 700 ft. 7 in. and 2,700 ft. 8 in.; ditching and laying 2 mi. of 4, 6, 7 and 8 in. riveted steel water pipe.

Cement—Cottam, Ont.—E. G. Bowers, Cottam, taking bids on large quantity of cement, $30,000.

Grain Elevator—Port Arthur, Ont.—Dec. 30, by N. Bawlf, pres. N. Bawlf Co., 571 Grain Exch. Bldg., Winnipeg, Man., 200 x 250 ft. grain elevator, 80 ft. high, rein.-con. bins, brick workhouse, 1,500,000 bu. capacity, on waterfront, here. $800,000. C. D. Howe Co., Port Arthur, archts. and engrs.

Crushed Stone—Toronto, Ont.—Dec. 31, by W. A. McLean, deputy minister of highways, Parliament Bldgs., 200,000 ton crushed stone for 1923. $400,000. G. Hogarth, ch. engr.

Dry Dock Machinery—Esquimalt, B. C.—Jan. 31, (change of date) by R. C. Desrochers, secy. Dept. Pub. Wks., Ottawa, pumping and other machinery for dry dock, here. Noted Dec. 14.

BIDS RECEIVED

Steel—Flushing, N. Y.—Transit Comn., 49 Lafayette St., New York, opened bids Dec. 14, furnishing and erecting steel for elevated portion of Rapid Transit R.R., Flushing Route, extending over and along Roosevelt Ave., private property and intersecting streets from Alburtis to Riverside Aves., here, from Phoenix Bridge Co., 132 Nassau St., New York, $615,880; Jobson Gifford Co., 30 East 42nd St., New York, $652,873; C. Meads Co., 217 West 14th St., New York, $665,962. Noted Dec. 7.

Portland Cement—New York, N. Y.—H. Bruckner, pres. Bronx Boro, Tremont and 3rd Aves., opened bids Dec. 14, furnishing and delivering 2,500 bags Portland cement, from E. E. Buehler, 103 Park Ave., $1,825, C. J. Mallett, 2554 Raymond Ave., $1,850, Anderson Brick Co., $1,875, J. P. Duffy Co., 207 East 138th St., $1,875; 6,000 gal. motor gasoline, from Standard Oil Co., 26 Bway., $1,278, Texas Co., 17 Battery Pl., $1,440, Tidewater Oil Sales Co., 11 Bway., $1,313. Noted Dec. 7.

Wharf — New Orleans, La. — Bd. Port Comrs., New Court Bldg., opened bids Dec. 14, reconstructing Robin St. wharf, incl. substructures retaining walls, fire walls and surfacing (1) 21,000 yd. 6 in. concrete, and (2) 5,600 yd. 8 in. concrete, from E. T. Malloy, 4117 St. Perets St., (1) $3.17 (2) $4.17, etc., total $203,000, (270 days) J. Reiss, Carondelet Bldg., (1) $2.38 (2) $4.17, (220 days) O. M. Gwinn, New Orleans, (street address not available) (1) $3.59 (2) $4.59, (200 days). Noted Nov. 30.

Portland Cement, etc.—St. Louis, Mo.—G. H. Oetting, supply comr., opened bids Dec. 12, (1) 1,258 bbl. Portland cement in cloth sacks for Fairground locker building (2) 90 ton 4 and 6 in. c.i. pipe, engrs. est. $4,500 (3) 430 ton Mississippi River sand (3B) 60 ton Meramec River sand, delivered in wagon lots to Fairground locker building (4) 140 squares ¾ in. macadam in wagon lots at Fairground locker building, from Missouri Portland Cement Co., Post Dispatch Bldg., and St. Louis Material & Supply Co., 314 North 4th St., (both bids same amounts), (1) $3.30 per bbl. delivered in wagon lots less $0.40 for sacks, $2.80 per bbl. in car lots f.o.b. less $0.40 for sacks, (3a) $2.05 delivered in wagon lots and $1.20 in car lots f.o.b. St. Louis (3b) $2.30 delivered in wagon lots and $1.45 in car lots f.o.b. St. Louis; Hammond-Byrd Iron Co., Amer. Trust Bldg., Birmingham, Ala., (2) $45.50; U. S. Cast Iron Pipe & Fdry. Co., Amer. Trust Bldg., Birmingham, Ala., (2) $46.60; Union Quarry & Constr. Co., 4687 Natural Bridge Rd., (4) $7.73 per square; Independent Quarry & Constr. Co., 4875 Ashland St., (4) $7.98; Bambrick Bros. Constr. Co., 5229 St. Louis St., (4) $8. Noted Dec. 14.

Levees—Sacramento, Calif.—State Recl. Bd., Forum Bldg., opened bids constructing levees, 2,600,000 cu.yd. clamshell work, 1,100,000 cu.yd. long boom excavator work, for Recl. Dist. 1660, Sutter Co., from P. B. Engh, Pacific Electric Bldg., Los Angeles, $913,950.

Grandstand — Tanforan, Calif. — Pacific Coast Jockey Club, 1st Natl. Bank Bldg., San Francisco, constructing steel frame and wood grandstand, 5,000 seats, here, from Grace & Bernieri, Claus Spreckels Bldg., San Francisco, $125,000; Clinton Constr. Co., 136 Townsend St., San Francisco, (amount not available). Noted Nov. 9.

CONTRACTS AWARDED

Refined Asphalt, etc.—Brooklyn, N. Y.—E. Riegelmann, boro pres., Boro Hall, furnishing and delivering 60,000 gal. refined asphalt, to Warner-Quinlan Co., 79 Wall St., New York, $3,600; 700 cu.yd. binder stone, to Calvin Tompkins Co., 30 Church St., New York, $1,421; 2,000 cu.yd. asphalt sand, to Hygrade Builders Supply Co., 6th St. and 2nd Ave., $4,620; 600 net ton limestone dust, to E. Meyer Co., 25 Church St., New York, $3,270; 2,000 cu.yd. paving sand, to T. E. McCormick, 701 East New York Ave., $2,350; 3,300 cu.yd. 1½ in. gravel, to J. T. Cunningham, $9,207. Noted Dec. 7.

Railings and Stairs—Phila., Pa.—Metal railings and stairs at Northeast sewage treatment plant, to F. and E. Auble, 2502 Germantown Ave., $33,105. Engrs. est. $50,000. Noted Dec. 7.

Canal Cover, etc.—New Smyrna, Fla.—For wall and cover canal, 3,000 ft. long, 9 ft. wide, 9 ft. deep, 2,500 sq.yd. concrete slab, 1,400 cu.yd. concrete in walls, to Hickey Bros., Furnace and Mound Sts., Columbus, O., $36,000. Noted Nov. 16.

Lumber—New Orleans, La.—Bd. Port Comrs., Court Bldg., furnishing creosoted piles of various lengths, to Hattiesburg Creosote Co., Hattiesburg, Miss., $12,342; also creosoted timber, to Creosoted Materials Co., Queen and Crescent Bldg., $13,262. Noted Dec. 7.

Foundation—Milwaukee, Wis.—Grand & Sixth Bldg., Inc., 425 East Water St., plain and wood pile foundation for 7 story and basement, 150 x 205 ft., brick, concrete and steel, Grand and 6th Sts., to S. M. Siesel, 160 Ogden Ave. Total cost $1,500,000. Noted Oct. 26 under "Buildings."

Foundation — Milwaukee, Wis. — Tate Printing Co., 133 2nd St., plain foundation for 8 story and basement, 60 x 120 ft., rein.-con. and brick office building, Bway., to R. Reisinger & Co., 646 Oakland Ave. Archts. est., building complete, $300,000.

SEARCHLIGHT SECTION

OFFICIAL PROPOSALS

Copy: Official Proposals reaching our New York Office by 10 A. M., Tuesday can usually be printed in the issue out Thursday.

Rate:
40 Cents a Line an Insertion

Plans and Specifications for inspection by distant bidders may be filed at any of the Engineering News-Record offices without charge.

THESE ADVERTISEMENTS ARE OFFICIAL NOTICES THAT BIDS ARE WANTED FROM BIDDERS EVERYWHERE.

OFFICIAL PROPOSALS

Bids: Jan. 2.

Sewer

Wilkes-Barre, Pa.

Sealed proposals will be received by Fred H. Gates, City Clerk, Wilkes-Barre, Pennsylvania, for constructing a four and six-foot circular brick or segmental block sewer, about seventeen hundred feet in length. Bids close Tuesday, January 2nd, 1923, at 12 o'clock noon, and will be opened by City Council on the same day at three o'clock P.M. Plans and specifications may be had from B. K. Finch, City Engineer, upon making a deposit of $10.00, said deposit to be refunded upon receipt of bid or upon return of specifications to City Engineer on or before January 15th, 1923. Each bid must be accompanied by a certified bank check of bidder in the sum of $1,000.00 made payable to the City of Wilkes-Barre. Successful bidder must furnish to said city a surety company bond in the full amount of contract. Proposals to be endorsed "Proposals for Sewer" and addressed to Fred H. Gates, City Clerk, City Hall, Wilkes-Barre, Pennsylvania. The City Council reserves the right to reject any or all bids received.

Bids: Dec. 26.

Road Improvement

Mineola, N. Y.

Sealed proposals will be received by the Board of Supervisors of Nassau County in its Chambers, in the Court House at Mineola, Long Island, on Tuesday, December 26, 1922, at 11 a.m. for the Improvement of the Long Beach Road between Barnum Island Creek and the Upland by the construction of bulk head and filling.

Plans and specifications may be seen at the office of the County Engineer at Mineola, Long Island.

Each bid must be accompanied by a certified check on a solvent bank in the sum of three per cent of the amount of the total contract, made payable to the County of Nassau.

The Board of Supervisors reserves the right to reject any or all bids, waive any informality in the bids, and to accept the bid which it deems most favorable to the interest of the County.

By order of the Board of Supervisors.
By JESSE MERRITT,
Clerk.

Dated at Mineola, L. I., December 11, 1922.

Bids: Dec. 26.

Rails and Poles

Cape May, N. J.

Sealed proposals will be received by the Commissioners of the City of Cape May, N. J., on Tuesday, December 26, 1922, at eleven o'clock A.M., for the purchase of the following:

184 Short Tons of Street Rail with Fish Plates, etc.: Five Short Tons Frogs and Switch Rails (six pieces); and 28 Iron Trolley Poles weighing approximately seven short tons.

The weights given are approximate and are given for the purpose of comparing proposals.

Proposals will be accepted for rail and poles separately or combined.

All proposals must be accompanied by a certified check for five per cent of the amount bid.

Material is stored in the City of Cape May and may be inspected at any time.

The Commissioners reserve the right to reject any or all bids.

Dated, December 12, 1922.
LEWIS T. STEVENS,
City Clerk, pro tem.

OFFICIAL PROPOSALS

Bids: Jan. 11.

Furnishing, Erecting and Painting Steel for Shed

New Orleans, La.

Sealed proposals will be received by the Board of Commissioners of the Port of New Orleans at their office, Suite 200, New Court Building, until 3:00 P.M., January 11th, 1923, and then publicly opened for furnishing, erecting and painting of the structural steel required for the Market Street Shed.

A deposit of $1,000.00 in cash or certified check is required with each proposal.

A bond to the amount of 50% of the sum bid is required with notarial contract.

Specifications and proposal forms are on file in the office of the Supervisor of Purchases, at No. 1 Canal Street, New Orleans, Louisiana. Complete sets will be furnished to prospective bidders on deposit of $5.00, which will be refunded to depositors who submit proposals, or return sets in good condition.

The right is reserved to reject any or all bids and to waive informalities.

J. H. WALSH,
General Manager.

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Bids: Jan. 16.

Sewers

Richmond, Va.

Sealed proposals will be received at this office until 12 oclock noon, Tuesday, January 16, 1923, for the building of Reinforced Concrete, Precast Concrete, Segment Block, Brick and Vitrified Pipe sewers, at various places within the limits of the City of Richmond.

The approximate cost of the work is $700,000.00. Of this amount $250,000.00 will be for various contracts for materials, to be furnished by the City, at the site of the work, and $450,000.00 for various contracts for construction.

A deposit of $10.00 per set is required for plans and specifications before they are delivered to bidder, which amount is returnable after bidder's proposal is received.

Forms of proposals can be obtained on application.

A certified check for amount stated on proposals must accompany each bid as a guaranty of execution of contract. Director of Public Works reserves the right to reject any and all bids.

ALLEN J. SAVILLE,
Director of Public Works.

OFFICIAL PROPOSALS

Bids: Jan. 1.

Road Bed, Bridges and Culverts

Kelso, Wash.

Sealed proposals for the construction of roadbed, bridges and culverts for approximately eight and one-half (8½) miles of railroad in Cowlitz County, Washington, will be received by the Longview, Portland & Northern Ry. Company at its offices at Kelso, Washington, up to 2 o'clock P.M., January 1st, 1923, when they will be opened and read, such eight and one-half (8½) miles being regarded by the company as the first unit of contemplated construction expected to total twenty-six (26) miles, contract expected to be let early in 1923.

Drawings, specifications and form of proposal, contract and bond are on file in the office of the Chief Engineer, Kelso, Washington, and may be inspected by prospective bidders; or same will be furnished to interested parties on deposit of Ten Dollars ($10.00), which will be refunded upon return of papers in good condition.

Bids must be made on proposal forms to be furnished by the company and in the manner designated therein, same to be inclosed in sealed envelope bearing the name and address of the bidder and to be marked "Bid for Railroad Construction."

The principal quantities involved are approximately as follows:

153,580 cubic yards common excavation.
39,300 cubic yards loose rock excavation.
59,300 cubic yards solid rock excavation.
222,860 cubic yards embankment borrow.
649,710 station yards overhaul.
924 lin. feet 18 in. concrete culvert pipe.
672 lin. feet 24 in. concrete culvert pipe.
60 lin. feet 30 in. concrete culvert pipe.
380 lin. feet 36 in. concrete culvert pipe.
70 lin. feet 42 in. concrete culvert pipe.
43,860 lin. feet piling.
514,500 ft. B.M. lumber for trestles.

Each proposal must be accompanied by a certified check payable to the Longview, Portland & Northern Ry. Company for not less than five (5) per cent of the total amount of the bid as a guarantee that contract will be entered into if awarded.

The person or persons, if any to whom the contract is awarded will be required to file a bond in a sum not less than 50 per cent of the total amount bid, with good and sufficient sureties, to guarantee the faithful performance of the contract.

Special attention of the bidder is called to "Information for Bidders" included in the proposal forms.

The right is reserved to reject any and all bids.

LONGVIEW-PORTLAND & NORTHERN RY. COMPANY.
By WESLEY VANDERCOOK,
Chief Engineer.

Bids: Jan. 5.

Municipal Building

Bath, N. Y.

Sealed proposals will be received at the office of the Village Clerk on or before noon, Jan. 5, 1923, for the construction of a Municipal Building.

Plans, specifications, and blank proposal form may be obtained from John W. Taggart, Village Clerk, Bath, N. Y., upon application and deposit of certified check for twenty-five ($25.00) dollars.

The right is reserved to reject any or all bids.

JOHN W. TAGGART
Village Clerk.

OFFICIAL PROPOSALS

Bids: Dec. 27.

Dock Wall

TERMINAL CONTRACT NO. 53-B.

Albany, N. Y.

Sealed proposals will be received by the undersigned at his office in the Capitol at Albany, N. Y., until twelve o'clock noon of Wednesday, December 27th, 1922, at which place and hour they will be publicly opened and read, for the construction of barge canal terminals pursuant to the provisions of Chapter 746 of the Laws of 1911, and amendatory laws, and Chapter 402 of the Laws of 1920, as follows:

TERMINAL CONTRACT NO. 53-B.

For constructing certain portions of the dock-wall at Ohio Basin, Buffalo.

Contract plans, sheets 1 to 3, inclusive.

Plans may be seen and detailed specifications, engineers' estimates of quantities, proposal blanks, form of contract and bonds required and other information for proposers may be had at the office of the Superintendent of Public Works, at Albany, N. Y., at the office of the Assistant Superintendent of Public Works for the Middle Division at Syracuse, N. Y.; at the office of the Assistant Superintendent of Public Works for the Western Division at Rochester, N. Y., at the offices of the Superintendent of Public Works, Erie Basin Terminal, Buffalo, N. Y., and Terminal Warehouse, Pier 6, East River, New York City.

Blueprint copies of plans will be furnished by the State Engineer and Surveyor upon the receipt at his office in the Telephone Building, Albany, N. Y., of payment at the rate of fifteen cents (15c) per sheet. Refund will not be made for any blueprints which may be returned.

Monthly estimates will be paid of ninety per centum (90 per cent.) of the work done at the contract price. Every proposal for said work must be accompanied by a money deposit in the form of a draft or certified check upon some good banking institution in the city of Albany or New York, issued by a national or state bank or trust company in good credit within the state and payable at sight to the Superintendent of Public Works for five per centum (5 per cent) of the amount of the proposal.

The person whose proposal shall be accepted will be required to execute a contract and furnish bonds within ten days from the date of notice of award delivered to him or them in person or mailed to the address given in the proposal.

Upon execution of the contract and approval of bonds, the certified check or draft will be returned to the proposer unless the same shall have been presented for collection prior to such time in which case the amount of the deposit will be refunded by the Superintendent of Public Works.

The deposits of bidders other than the one to whom the award of contract shall be made will be returned immediately after the award has been made.

The bond required for the faithful performance of the contract shall be in such sum as shall be fixed by the Superintendent of Public Works, which sum shall not be less than twenty per centum (20 per cent) of the estimated cost of the work, according to the contract price, and an additional bond known as the labor bond, in the sum of ten per centum (10 per cent) of the amount of the estimated cost of the work according to the contract price, will be required as security that the contractor will pay in full at least once in each month all laborers employed by him upon the work specified to be done in the contract.

In the event that more than one surety company is offered as surety on said bonds co-insurance only will be accepted.

Each proposal must be addressed to the Superintendent of Public Works, Albany, N. Y., and must be endorsed on the envelope with the name of the construction for which the proposal is made.

Award, if made, will be made to the person or persons whose proposal shall be lowest in cost to the state for doing the work, and which shall comply with all provisions required to render it formal. Before any award shall be made the lowest bidder will be required to satisfy the Superintendent of Public Works of his ability to provide suitable equipment and materials for the proper performance of the work.

The right is reserved to reject all proposals and readvertise and award the contract in the regular manner if, in the judgment of the undersigned, the interests of the state will be enhanced thereby.

CHARLES L. CADLE,
Superintendent of Public Works.
November 23rd, 1922.

OFFICIAL PROPOSALS

Bids: Dec. 30.

Ditch Construction

Greenfield, Ind.

Sealed bids will be received at the Surveyor's Office, Room L, Court House, Greenfield, up until 2 P.M. on Saturday, December 30, 1922, for the construction of the George W. Putterbaugh, et al., Ditch.

The following are the approximate quantities of materials:

4,000 lineal feet 30 inch tile.
1,100 lineal feet 14 inch tile.
8 catch basins.
3,000 cubic yards of excavation.

The 30 inch tile may be of either clay, shale, or concrete as specified.

Plans and specifications will be mailed to any address upon receipt of check for $10.00 made payable to the engineer.

CHARLES BOONE,
Engineer.
Greenfield, Indiana.

A Bonding Company's Suggestion to Official Proposal Advertisers

"A large part of our contract bond business is submitted to us by wire, and I am a constant reader of the Official Proposals in order to find out the size and nature of the work that is referred to in the bond application. Very frequently I am unable to get any clear idea of what the advertisers are asking bids on, and of course the prospective bidder or contractor is also at a loss to know what kind of a job is being advertised.

"Traveling expenses are heavy at the present time, and contractors pay out considerable sums during the course of a year in investigating prospective contracts. This of course is a large charge that the owners eventually pay, and anything that will reduce the general overhead of contract work will eventually be to the advantage of the owner.

"One way to reduce this overhead is to word the advertisement so that the contractor sitting in his office will know whether or not he should investigate and prepare a bid on the proposed work."

OFFICIAL PROPOSALS

Bids: Dec. 26.

Road Work

Penns Grove, N. J.

Notice is hereby given that sealed bids will be received by the Mayor and Common Council of the Borough of Penns Grove for the construction of certain streets in the Borough of Penns Grove, in the County of Salem, with a bituminous macadam surface; estimated amount of pavement required is 20,793 square yards; and opened and read in public at the Borough Hall, Penns Grove, N. J., December 26th, 1922, at 8 P.M., standard time.

Drawings, specifications and forms of bid, contract and bond for the proposed work, prepared by Keasbey & Sparks, Engineers, have been filed in the office of the said engineers at Salem, N. J., and may be inspected by prospective bidders during business hours. Bidders will be furnished with a copy of the specifications and blueprints of the drawings by the engineers on proper notice.

By order of the Mayor and Common Council of the Borough of Penns Grove.

CLYDE W. STRUBLE, Clerk.

Bids: Jan. 15.

Bulkhead

Jersey City, N. J.

Sealed proposals will be received by the Hudson County Park Commission at its office, 1 Exchange Place, Jersey City, N. J., on Monday, January 15th, 1923, at 11 o'clock a.m., for the construction of a Bulkhead at West Side Park, Jersey City, N. J., and work connected therewith in accordance with plans and specifications on file at the office of the Hudson County Park Commission.

Blank form of bid showing estimate of quantities must be obtained at the office of the Hudson County Park Commission.

Each bidder must accompany his bid with a certified check drawn to the order of the Hudson County Park Commission to the amount of 5% of his bid.

The successful bidder will be required to furnish a surety company's bond to be approved by the Hudson County Park Commission in the full amount of his bid with satisfactory security conditioned for the faithful performance of his contract.

There shall be two contracts ,the original and copy which shall first be signed and executed by the successful bidder and presented to the Hudson County Park Commission for signature.

Bids must be enclosed in sealed envelopes indorsed "Proposals for Bulkhead and Reclamation, West Side Park, Jersey City, N. J.," directed to the Hudson County Park Commission and delivered to the Secretary of the Commission at or before the hour above specified. The Commission reserves the right to reject any or all bids.

Dated: December 18, 1922.

Hudson County Park Commission.
BY JOSEPH FILORAMO, JR.,
Secretary.

WILL SUBLET

About 40,000 cu.-yds. Excavation on two miles road work in Penn. Suitable for small shovel and teams material consists of earth and loose rock and can be worked all winter.

M-399, Engineering News-Record
Real Estate Trust Bldg., Philadelphia, Pa.

Christmas Greetings!

May this Christmas be for you one of glory and gladness!

May true happiness come to those most dear to you!

May the incoming year greet you with prosperity in abundance!

May every dawn bring with it some new delight for you!

May every morning add to your joys, and every evening bring you peace and contentment!

Harmon V. Swart
92 William Street, New York City

OFFICIAL PROPOSALS

Bids: Jan. 5 (Date of closing extended).

Reservoir Dam

Bluefield, W. Va.

Sealed proposals or bids for the construction of a clay or earthen dam, containing about 40,000 cubic yards of material, to be sluiced into place, will be received at the office of the BLUEFIELD WATER WORKS & IMPROVEMENT COMPANY, at Bluefield, West Virginia, until three o'clock P.M., on the 5th day of January, 1923, when they will be publicly opened and read. All proposals shall be enclosed in an envelope furnished by the above styled company and shall be accompanied by a certified check on some national bank, in the sum of five (5%) per cent of the amount of the proposed bid. The contractor to whom the award is made will be required to furnish surety company bond in the sum of thirty five (35%) per cent of the amount of the contract, within thirty days after official notice of the award of contract and in accordance with the terms of the specifications. The right is reserved to reject any or all bids. Drawings, specifications and blank forms of proposals may be consulted at the office of company, 601 Princeton Avenue, Bluefield, West Virginia, or they will be forwarded by mail upon request if $4.00 accompanies the order. This amount will be refunded upon return of the plans and specifications in reasonably good order.

BLUEFIELD WATER WORKS & IMPROVEMENT COMPANY.
WM. McCARTHY,
Superintendent.

November 23rd, 1922.

U. S. GOVERNMENT

TREASURY DEPARTMENT, Supervising Architects Office, Washington, D. C., December 18, 1922.—Sealed proposals will be opened in this office at 3 p.m., January 12, 1923, for Remodeling in the U. S. Post Office and Sub Treasury, Boston, Mass. Drawings and specifications may be obtained, in the discretion of the Supervising Architect, at this office, or at the office of the Supervising Chief Engineer, Room 437, Post Office Building, Boston, Mass. Jas. A. Wetmore, Acting Supervising Architect.

OFFICIAL PROPOSALS

Bids: Jan. 12.

Inlet and Outlet Works

BALDWIN FAIRMONT PROJECT, CONTRACT 18

Cleveland, Ohio.

Sealed proposals will be received at the Office of the Commissioner of Purchases and Supplies, Room 219, City Hall, until 12.00 o'clock noon, official Cleveland time, January 12, 1923, for constructing inlet and outlet works at Fairmont Reservoir for the Division of Water, and will be opened and read in the Council Chamber immediately thereafter.

Each bid must be accompanied by a certified check on a solvent bank for $2,500 drawn payable to the City of Cleveland as surety for the acceptance of the contract. Each bid must be made in accordance with the plans and specifications which may be obtained at the Division of Water, Drafting Room 213, City Hall, upon the deposit of five dollars ($5.00) per set. Said deposit to be redeemed upon the return of said copies in good condition.

No proposal will be entertained unless made on the blank form furnished by the Division of Water and delivered at the Office of the Commissioner of Purchases and Supplies previous to 12:00 o'clock noon on the day above specified.

The city reserves the right to reject any or all bids.

Cleveland Water Department.
A. V. RUGGLES,
Commissioner of Water.

U. S. GOVERNMENT

SEALED PROPOSALS will be opened by the Supt. of Lighthouses, New Orleans, La., 2 o'clock P.M., January 18, 1923, for (1) furnishing f.o.b. cars approximately 1,800 tons of rough quarried rock; (2) furnishing and placing approximately 1,800 tons of rock protection around Sand Island Light Station, Ala.; (3) loading, transporting, and placing around Sand Island Light Station, Ala., 1,800 tons of rock to be furnished by the Government. Separate proposals for each item of service. Information upon application.

U. S. GOVERNMENT

U. S. ENGINEER OFFICE, WILMINGTON, N. C., Nov. 25, 1922. Sealed proposals will be received here until 12 M., December 26, 1922, and then opened for constructing one 60-foot by 22-foot by 4-foot steel barge. Further information on application.

PROPOSALS FOR OFFICERS' QUARTERS.—Sealed proposals will be received by Constructing Quartermaster, U. S. Army, Edgewood Arsenal, Md., until 11:00 a.m., December 27, 1922, and then opened for the construction of twenty sets of frame officers quarters at Edgewood Arsenal, Md. Plans and specifications obtainable upon deposit of $10.00, which will be refunded upon return of same in good condition. Right is reserved to accept any or to reject all bids.

SEALED PROPOSALS, indorsed "Proposals for Roads, Tupper Lake, N. Y., Specification No. 4727," will be received at the Bureau of Yards and Docks, Navy Department, Washington, D. C., until 11 o'clock a.m., December 28, 1922, and then and there publicly opened, for concrete roads and sidewalks, concrete culverts, macadam roads, cobble stone gutters, inlets, catch basins, and terra cotta piping, all at the U. S. Veterans' Hospital, Tupper Lake, N. Y. Drawings and Specifiation No. 4727 may be obtained on application to the Bureau of Yards and Docks, Navy Department, Washington, D. C., or to the Officer in charge of construction U. S. Veterans' Bureau, Tupper Lake, N. Y. Deposit of a check or postal money order for $10, payable to the Chief of the Bureau of Yards and Docks, is required as security for the safe return of the drawings and specification. L. E. GREGORY, Chief of Bureau, December 5, 1922.

U. S. ENGINEER OFFICE, Florence, Alabama. Sealed proposals will be received here until 11 a.m., December 30, 1922, and then opened, for the construction and delivery of one 15-inch dredging pump for dredge Pettus. Further information on application.

U. S. ENGINEER OFFICE, CINCINNATI, O. Sealed proposals will be received here until Jan. 5, 1923, and then opened for the construction of one 24-inch pipe line dredge. Further information on application.

U. S. ENGINEER OFFICE, HUNTINGTON, W. VA., Nov. 29, 1922. Sealed proposals will be received here until 11 a.m. (Eastern time) December 30, 1922, and then opened, for constructing a Fireproof Powerhouse at Dam No. 30, Ohio River. Further information on application.

SEALED PROPOSALS will be opened by the Supt. of Lighthouses, Key West, Fla., 2 P.M., January 15, 1923, for furnishing and delivering f.o.b. shipping point, metal work complete for ten (10) light towers. Information upon application.

U. S. ENGINEER OFFICE, NASHVILLE, TENN. Sealed proposals will be received here until 11 A.M., January 16, 1923, and then opened, for steel hull for dipper dredge Watauga. Further information on application.

SEALED PROPOSALS will be received and publicly opened by the Director, U. S. Veterans' Bureau, in the Office of the Quartermaster General, 2306 Munitions Building, Washington, D. C., at 11 A.M., January 16, 1923, for construction of a Neuro-Psychiatric Hospital at American Lake, Tacoma, Washington, for the Veterans' Bureau. Work will include construction of twenty-eight buildings of reinforced concrete, tile and brick, complete with water, lighting, heating and sewer systems, roads and walks. Plans and specifications may be obtained after December 9, 1922, from the Quartermaster General, Room 2306, Munitions Building, Washington, D. C., upon deposit of $100. One set of plans and specifications will be on exhibition at each of the following stations: Constructing Quartermasters at 39 Whitehall St., New York City, and Fort Mason, California, and Quartermaster Supply Officers at 1819 West Pershing Road, Chicago, Ill., Second and Arsenal Sts., St. Louis, Mo., Stacy Street Terminal, Seattle, Washington, and New Post Office Building, Portland, Oregon. If bidders on the coast will wire the Quartermaster General's Office, date they are mailing check for deposit, this will be taken as evidence of good faith and plans and specifications will be mailed them at once.

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for Engineering News-Record

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If you can spare an hour or two a day *during business hours* for calling upon architects, contractors, engineers and city departments;

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E. N. R.

POSITIONS VACANT

A DISTRICT engineer wanted for a large company doing work all over the United States, for permanent position on variety of engineering service in Mississippi and Louisiana wth headquarters at Meridian, at salary of $300 a month. Southern man with long experience in one or both of above states preferred. Address P-345, Eng. News-Record, Real Estate Trust Bldg., Phila., Pa.

AN experienced railroad draftsman wanted in the chief engineer's office, Pittsburgh. State age, education, experience, references, salary expected, and submit a small sample of work. R. P. Forsberg, Principal Assistant Engineer, P. & L. E. R.R., Pittsburgh, Pa.

DRAFTSMAN, experienced, wanted for structural steel buildings; apply by mail only, giving age, nationality, education, experience and salary expected. Post & McCord, 101 Park Ave., New York.

DRAFTSMAN, preferably with designing experience on engines or air compressors. Location Ohio. Apply, giving full particulars, P-348, Eng. News-Record, 10th Ave. at 36th St., New York City.

DRAFTSMAN wanted, familiar with steam and street railway special track work. State salary, experience, etc. P-410, Eng. News-Record, Old Colony Bldg., Chicago, Ill.

ENGINEER and draftsman wanted by consulting engineer in North Carolina. Good opportunity and permanent position for the right man. State in application age, qualifications and salary desired. P-386, Eng. News-Record, Real Estate Trust Bldg., Phila., Pa.

ENGINEER wanted, mechanical and electrical, as assistant to the superintendent of a portland cement plant in the East; must be good, competent, trustworthy young man, with practical experience (cement not necessary); excellent chance for advancement if you can make good. State age, nationality, experience and wages expected. P-319, Eng. News-Record, Real Estate Trust Bldg., Philadel-

ENGINEER wanted, familiar with street railway special track work, to work into sales organization. Give full details in first letter. P-409, Eng. News-Record, Old Colony Bldg., Chicago, Ill.

POSITIONS VACANT

ESTIMATOR and salesman. Structural steel and ornamental iron. Cleveland firm. Engineering experience desired. Good chance for right man. State age, experience and salary expected. All replies strictly confidential. P-414, Eng. News-Record, Leader-News Bldg., Cleveland, Ohio.

EXPERIENCED plane table man wanted by city in middlewest for several months survey. Send references, experience and name salary. P-408, Eng. News-Record, Old Colony Bldg., Chicago, Ill.

FIRST class structural steel detailers and checkers with experience on mill buildings, office buildings, etc. Position in Pittsburgh district. State experience and salary desired. P-525, Eng. News-Record, Leader-News Bldg., Cleveland, O.

ONE concrete engineer, experienced in preparing complete designs and estimates for reinforcing materials. One engineering salesman familiar with fireproof building materials. Give age, education, references, detailed experience, salary desired, and earliest reporting date. P-350, Eng. News-Record, Leader-News Bldg., Cleveland, Ohio.

SEVERAL first class structural draftsmen to make and check shop drawings. None but competent and experienced men are desired. Reply giving full information, Whitehead & Kales Company, Detroit, Mich.

POSITIONS VACANT

STRUCTURAL steel detailers and checkers wanted for building work in New York district. Give age, experience, record, nationality and salary desired. P-385, Eng. News-Record, 10th Ave. at 36th St., New York City.

STRUCTURAL steel draftsmen and checkers wanted. Apply Hay Foundry & Iron Works, Newark, N. J.

SUPERINTENDENT wanted on road job near New York City. Heavy rock excavation. Large amount dry rubble walls. Long job. P-401, Eng. News-Record, 10th Ave. at 36th St., New York City.

WANTED—Writer in Civil Engineering subjects; must be a college graduate with practical experience as well as experience in technical writing. Position requires residence in eastern city of 150,000. State education and experience, also initial salary expected in first letter. New York or Philadelphia interview. P-415, Eng. News-Record, 10th Ave. at 36th St., New York City.

WANTED at once an architect with broad general experience, preferably licensed in North Carolina. This is an excellent opportunity for a live man. Give full details on training, age, experience and salary considered. P-412, Eng. News-Record, Real Estate Trust Bldg., Phila., Pa.

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